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AMERICAN RAILROAD JOURNAL. AND ADVOCATE OF IVIERNAL IMPROVEMENTS.

PUBLISHED WEEKLY, AT No. 25 WALL STREET, NEW-YORK, AT THREE DOLLARS PER ANNUM, PAYABLE IN ADVANCE.

D. K. MINOR, EDITOR.]

SATURDAY, MAY 11, 1833.

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Facts in relation to the Saratoge and Schenectady Raif-Intelligence

AMERICAN RAILROAD JOURNAL, &c.

NEW-YORK, MAY 11, 1833.

To Correspondents.—The communication of C. O. is received. Mr. Bulkley's reply to U. A. B. upon the "Guard Rail," and Mr. Sullivan upon the same subject, are also at hand, but unavoidably deferred until next week, that other articles which have been some time in type may be disposed of. They will all appear in our next.

NEW-JERSEY RAILROAD .- The following paragraph from the Newark Daily Advertiser re- nectady to Saratoga Springs is about north 30 ° able to learn very little-yet, to this city and at Schenectady to its termination at Saratoga the section of New-Jersey through which it Springs, is 21 4 miles. The total cost of passes, a work of great importance. From the construction, including buildings for carriage it will be perceived that the charter gives the company the privilege of constructing branches, and of levying rates of toll, which will, beyond all doubt, render an investment in its not embraced in the engineer department. stock highly profitable. The charter requires that the work shall be commenced both at Jerthe entire line completed within five years.

"Our readers will find in our columns a brief abstract of the charter of the New-Jersey Rail-road, and a reference to the law which requires the Camden and Amboy Railroad to construct a branch from New-Brunswick to their road, thus furnishing a continued communication by Railroad through the heart of the state, so loudly called for and ardently desired by the

is rapidly advancing in favor with capitalists and the public generally. The merits of the contemplated work need only be known, to ensure for it the most favorable regard of the community, it being abundantly manifest that the road will be highly advantageous to the section of country through which it passes, and productive of a rich revenue to the stockholders.

Madison, Madison co. N. Y. May 1, 1833.

To D. K. MINOR, Esq.:

Dear Sir,-It is with pleasure I embrace a few moments of leisure from my duties, in preparing for the location of the Chenango Canal, to comply with my promise of sending you some of the leading facts, in relation to the Saratoga and Schenectady Railroad.

This Railroad was commenced about the first of September, 1831, and opened for travelling the 12th of July, 1832, through the whole route, except a heavy section at the village of Ballston, which was also opened for travelling about the 15th ultimo, making the communication complete from the Mohawk and Hudson Railroad at Schenectady to Saratoga Springs.

The general direction of the road from Schefers to a work of which we have before been east. Its total length from the Mohawk bridge extracts given in this number of the Journal, houses, stables, and two dwellings, was \$217,201 22 or equal to \$10,149 per mile. This is exclusive of the cost of lands, and the compensation of such general agencies as are

About three miles of the road is put down on tone foundation. The plan pursued for this sey City and New-Brunswick, within two, and kind of road was to excavate a trench under each rail $2\frac{1}{2}$ feet, and $2\frac{1}{2}$ feet in width, and fill the same with broken stone. These stones were rammed down in courses of four inches; on this bed of broken stone a block containing two cubic feet of stone was laid down and finally bedded at every three feet distance from centre to centre. On these stone blocks cast iron chairs were firmly fastened to receive the rail timber, which was secured by wedges. On his timber, which was secured by wedges. On have surpassed those for the same number of days. people of New Jersey. We have thought that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and form the track. At every eighteen feet a cross left to the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and form the track. At every eighteen feet a cross left to the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter, at this time, would be acceptable to our patrons, because this grand and true that a publication of the principal provisions of the Railroad charter and the rail timber at flanged place of iron was laid, to be a publication of the principal provisions of the rail timber, which was secured by wedges. On this timber a flanged place of iron was laid, to be a publication of the principal provisions of the rail timber, which was secured by wedges. On this timber a flanged place of iron was laid, to be a publication of the principal provisions of the this timber a flanged plate of iron was laid, to after the opening of the canals, in any former year.

important enterprize of internal improvement itie of timber secured the rails from spreading. This plan of construction requires the road to be well drained; and when put down thoroughly makes a substantial, and, except the timber in the rail and cross ties, a permanent structure.

The remainder of the road is put down on a timber foundation in the following manner. A timber is laid nearly under the rail, called a longitudinal sill; on this timber the cross sleepers are laid at three feet from centre to centre; the cross sills have a notch (or gain) cut to receive the longitudinal sill, and also to receive the rail timber, which is secured to it by wedges. The rail timber is capped with the iron plate, same as on stone foundation. This mode of construction is not generally quite half as expensive as that before described. There was some apprehension it would suffer much from frost; the experience of the past winter, however, has not confirmed the fears that were entertained. If the road is well and uniformly drained, the front affects it but little, and that so uniformly, as not to produce an irregularity that materially injures its use; and when the ground is settled in the spring, this kind of road is very readily adjusted. It is more favorable for the carriages than the stone foundation, but, for the same reason, the traction is not as easy.

The road has a single track, and with some exceptions is graded on a substantial and permanent plan. The grade of the road is in part level; the remainder is undulating at various angles of inclination, in no place exceeding 16 feet in a mile, or at the rate of 1 foot in 330

In December last I prepared a plan for a locomotive engine, which was submitted to the Directors of the Company, who have subsequently ordered an engine to be constructed by G. Stevenson, & Co. (England) agreeably to the same, and which it is expected will be on the road in June next. It will be mounted on the road in June next. It will be mounted on the road in June next. six wheels. As soon as we have a fair trial (which I have no doubt will be successful) I shall give you an account of her performance. In haste: very respectfully, your obedient ervant, John B. Jervis, Civil Eng'r. ervant,

Canal Tolls.-The returns received at the Comp troller's office show that the amount of tolls collected on all the canals of the state, from the 22d to the 30th forming a railroad from the coal and iron

IMPROVEMENTS IN PENNSYLVANIA. nued from page 276.]

6. Mine Hill and Schuylkill Haven, at the mouth of the West Branch of Schuylkill, up that stream 101 miles to Mine Hill Gap. Finished and in use. Trade, coal. Belongs criptions it contains, of the various mineral

and branches about seven miles. Finished and in use. Trade, coal. Belongs to a com-

8. Danville and Pottsville Railroad. From Pottsville to Sunbury, opposite the forks of the Susquehannah. Length 45 miles—eight forms a kind of central point or area, from miles nearly completed. It is designed to whence diverge, irregularly, a number of accommodate the great coal region on the smaller valleys or deep ravines. All these ing the veins of the Chimney Narrows, capable of containaccommodate the great coal region on the Shamokin, Mahoney, &c. and to connect valleys, to the number of twelve, rise with a the Susquehannah with the Schuylkill canal. rapid inclination above the level of this area, Belongs to a company.

9. Schuylkill Valley Railroad.

first of any magnitude completed in the United States. From the head of the Lehigh vines, occur under the most favorable known Canal at Mauch Chunk, to the coal mine on the summit of Mauch Chunk mountain. Aggregate of main line and branches, 123 Navigation Company.

11. The Roan Run Railroad. From Mauch Chunk, up the Lehigh to a Coal Mine-length 51 miles. Finished and in to be crossed by the Tioga river at from 5 to use. Belongs to the above company.

12. Lyken's Valley Railroad. Millersburgh to the Susquehannah, up La. minerals are discernible throughout that disken's Valley, to a Coal Basin in the Brody tance; but as the river passes through gramiles. Begun, and will be completed this not washed or exposed, their examination was

Hudson and Delaware Canal Company, and purposes, whenever it should be thought neconnects that work with the Coal Mines in cessary to locate one down the valley. the valley of the Lackawana. Length of road 161 miles. Finished and in use.

road. From Philadelphia to the Delaware Bridge near Trenton. Distance 271 miles. The line is located, and contracts made for grading and bridges. To be finished this year. The rails will be laid next year. Belongs to a company, and is designed to accommodate transportation between Phila-

delphia and New-York.

The above list is believed to comprise all the important Railroads in Pennsylvania, actually finished, or upon which arrangements have been made for their early completion. Some smaller or branch lines have been probably overlooked. There are also several very important works which have been authorized by law, and which there is reason to hope will be soon commenced. Of this class are the Williamsport, and Elmira, and Phillipsburg, and Juniata Railroads. We have not named the York and Baltimore Railroad, as we believe that portion of it which lies in Pennsylvania has not been com-

Among other documents connected with these interesting subjects, we have been favored with a report of a survey made by Mr. R. Taylor, * Engineer, with a view of

mines near Blossburg, to the state line at Lawrenceville, a distance of twenty-six miles.

Mr. T.'s report is rendered exceedingly interesting by the numerous tables and dessections of the mining districts surrounding to a company.

7. Mount Carbon Railroad. From Mount Blossburg. Speaking of the mineral resources of the Tioga Valley, after giving a valley of the Norwegian creek-main line detailed account of those sections, showing the position and thickness, of the respective beds of coal, iron, fine clay, sand stone, slate, shell, and other strata, he thus proceeds: "In taking a general view of this district it will be seen that the valley of Blossburg

smaller valleys or deep ravines. All these until they intersect the mineral strata of the From surrounding mountains, at elevations, between Port Carbon at the head of the Schuylkill na. the lowest and the highest, of from 200 to rora-distance 10 miles. Trade, coal. Be. of the summits or table lands being 500 or longs to a company. Finished and in use. 600 feet above Blossburg bridge. Coal and 10. The Mauch Chunk Railroad. The iron ore of different qualities prevail extensions. 600 feet above Blossburg bridge. Coal and sively, and when thus intersected by deep racircumstances for mining, and for transmission upon railroads."

"Almost every valley is capable of mainmiles. Belongs to the Lehigh Coal and taining its separate branch railroad, and of conveying its contribution of these important

products to the principal line.

"The series of mineral strata are estimated 8 miles east from Blossburg. The examina-from tion has been thus far pursued, and traces of Distance sixteen and a half velly alluvial bottoms, where the banks are left in an incomplete state. The whole in-13. Carbondale Railroad. Belongs to the clination is perfectly practical for railroad

"At the forks near Fishing Camp, about five miles up the Tioga, this river is joined 14. The Philadelphia and Trenton Rail. by Fellow's creek, which traverses another section of this district from the northeast. The upper part of this ravine is crossed by three falls, in succession, descending about one hundred feet. Below them are numerous indications of the proximity of coal and iron, but the banks are too much obscured by alluvial deposites to exhibit the precise sites of the mineral beds on a single examination. Several small ravines descending into this branch, and into Morriss's Run, contain traces of coal.

On the east side of the Tioga, nearer Blossburg, are the four principal ravines of East Creek, Bear Creek, Coal Run, and Morriss's Run. There are two or three other ravines in the same direction where the coal beds are approachable. On the west are the two ravines of Boon's Creek and Johnson's Creek.

"Three miles below Blossburg there is a regular dip, at the rate of 260 feet to the mile southward, which increases until at 17 miles it is about 500 feet in a mile, and then decreases to 200 feet per mile, at the State line, or 26 miles.

Mr. R. Taylor, * Engineer, with a view of *Report on the Surveys undertaken with a view to the establishment of a Railroad from the coal and iron mines near

"If we pursue this examination for the sake

dip is 168 feet in each mile; and at 38 miles, near the Painted Post, was found to be 130 feet. At 42 miles, at the Chimney Narrows, in the same parallel, near the entrance of the Chemung feeder, this dip is about 100 feet, making the aggregate southern depression of the strata about 1050 feet more to this point, to be added to 70 feet, the descent of the land from the state line. Uniting, therefore, these sums with those before observed in the Pennsylvania division, the altitude of any land or mountains near be more than 6000 feet, whereas they do not commonly exceed 600 feet; or by reversing the position, the stratum of rock on a level with the river of Chimney Narrows would be about 6275 feet below the summit Port Carbon at the head of the Schuylkill nawigation, up that river to the town of Tuscawigation, up that river to the town of Tuscaof the summits or table lands being 500 or I may add that I have had an opportunity of extending the examination 60 miles further, or more than 100 miles from the coal beds, to the north and north-east; and a general observation may be made, that wherever a horizontal position [which often prevails] is not maintained throughout this parallel, there exists a depression pointing towards the Tioga coal district, or, generally, south. Consequently there is no probability that any portion of these mineral beds are prolonged in that direction, and, as has been before suggested, we must continue to regard the district which is the more immediate subject of our investigation, and from which I have somewhat wandered, as the real termination of the great Alleghany coal field.'

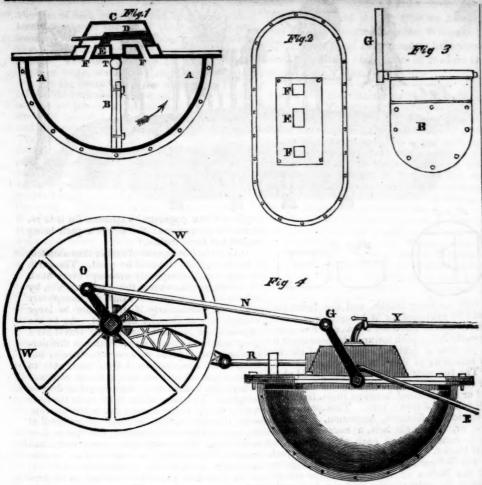
Mr. Taylor's report is drawn up with great ability, and is of itself evidence of great industry and perseverance on his part. We sincerely hope that this most important plan will very soon be added to the list of works in active operation, feeling confident that it will materially benefit the commercial inter-

est of Pennsylvania.

Improved Rotary Engine. By G. N. To the Editor of the Mechanics' Magazine.

SIR,-In your last number I noticed a description of Ericsson's Rotary Engine, extracted from the London Mechanics' Magazine, the chief recommendation of which is its extreme compactness combined with its power. Hitherto Rotary Engines have met with poor success, and this has in a great measure been owing to the great friction which is necessary for preserving the piston tight, or, a want of surface for the steam to act upon. In a reciprocating engine, the constant distribution of power for moving the valves, and geering, necessary to communicate a reciprocating to a rotary motion, must amount to considerable. Now in Rotany Engines all this is avoided, and motion may be communicated to machinery without the slightest difficulty. Judging from the description, Ericsson's Engine has, however, one disadvantage, and that is the difficulty of construction.

Nothing is more requisite for the good performance of any machinery than simplicity and harmony in all its parts, and, the more simple the machine, the better is it made, and cons. quently the more successful. I give below a description of an Engine invented, I believe, by a Mr. Mollery, of Os-



wego, which is even more compact than tal position, in a direction with the arrow. Ericsson's, and much more simple and easy The slide D is then moved by the eccentric, to construct. The only one which I have and the steam is thrown on the other side of ever seen was used for propelling a small the piston, moving it in a contrary direction boat called the "Water Witch," about the size of a common canal boat. She had two regular reciprocating motion is preserved, engines, one to each wheel, and these were of such dimensions that a man might easily carry one in each hand. And yet it worked rapidly and easy, moving the boat with considerable velocity—say, 10 miles an hour. The whole machinery occupied about a third of the boat.

EXPLANATION.

Fig. 1 represents a longitudinal section through the middle of the chamber A A. B is a piston or vane, moving on the axis T, packed in the usual manner. D, a slide moving in the steam box C. F F are pipes or holes for throwing the steam on the pis-ton. E, the aperture for the exhaust.

Fig. 2 is a top view of the cap to the chamber, having the steam box taken off. F F, holes communicating with the interior of the chamber. E, exhaust hole.
Fig. 3 is a detached view of the piston;

G is a bar for giving motion to the crank.

Fig. 4 is a side view of the engine, with all its parts. G is the bar meeting the rod N, which joins the crank at O. P is an eccentric for moving the slide. R, rod for the slide. E, exhaust pipe. Y, pipe for conveying steam from the boiler. W, balance wheel for equalizing the motion. The chamber being in two parts, is screwed together by nuts as shown in Fig. 4. It remains then only to show the manner of setting it to work. This is effected in the following manner—steam being admitted to the steam box by means of the pipe Y, enters the open pipe F, (Fig. 1,) moving the vane to a horizon—is now fully proved. The morning I left construction of steam-ves—is now fully proved. The morning I left construction of steam-ves—is now fully proved.

from which a rotary one is easily taken by means of a connecting rod and crank, as in g. 4. Yours, &c. Geneva, April 3d, 1833. Fig. 4. G. N.

THE FIRST STEAMBOAT VOYAGE.—We feel gratified at being enabled to lay before our readers a letter from ROBERT FULTON, giving an account of his first trip by steam up the Hudson river. It is an extract from a Philadelphia paper of 1807, and can hardly fail of being read with interest. "When Fulton started upon this first voyage, he stood almost alone in his expectations of success. He, however, was sanguine; and could he now revisit the numerous rivers and bays of our country, he would find his expectations more than realized."

New-York, August 22, 1807.

To Joel Barlow, Esq. of Philadelphia:

My Dear Friend,—My steamboat voyage

My Dear Friend,—My steamboat voyage to Albany and back has turned out rather more favorable than I had calculated. The distance from New-York to Albany is 150 gines. Jan. 29; six months.

miles: I ran it up in 32 hours, and down in Josiah John Guest, of Dowlais Iron Works,

New-York, there was not, perhaps, thirty persons in the city who believed that the boat would ever move one mile an hour, or be of the least utility. And while we were put-ting off from the wharf, which was crowded with spectators, I heard a number of sarcastic remarks: this is the way, you know, in which ignorant men compliment what they call philosophers and projectors.

Having employed much time and money and zeal in accomplishing this work, it gives me, as it will you, great pleasure to see it so fully answer my expectations. It will give a quick and cheap conveyance to merchan-dise on the Mississippi, Missouri, and other great rivers, which are now laying open their treasures to the enterprize of our countrymen. And although the prospect of personal emolument has been some inducement to me, yet I feel infinitely more pleasure in reflecting with you on the immense advantage that my country will derive from the invention.

However useful this may be, it is not half so important as the torpedo system of defence and attack; for out of this will grow the liberty of the seas; an object of infinite importance to the welfare of America, and every civilized country. But thousands of witnesses have now seen the steamboat in rapid movement, and they believe; they have not seen a ship of war destroyed by a torpedo, and they do not believe. We cannot expect people in general will have a knowledge of physics, or power of mind sufficient to combine ideas, and reason from causes to effects. But in case we have war, and the enemy's ships come into our waters, if the government will give me reasonable means of action, I will soon convince the world that we have surer and cheaper modes of defence than they are aware of.

Yours, &c. ROBERT FULTON.

List of English Patents granted between the 20th of January and the 21st of February, 1833.

John M'Curdy, of Southampton-row, for certain improvements in machinery for acquiring power in rivers and currents. Partly communicated by a foreigner. To enrol within six months from 22d of January.

Luke Hebert, of Paternoster-row, civil engineer, for certain improvements in machines or apparatus for, and in the process of, ufacturing bread from grain, and the application of other products for another product to certain useful purposes. January or apparatus for, and in the process of, man-24; six months.

Robert Stephenson, of Newcastle-upon-Tyne, engineer, for certain improvements in the locomotive steam-engines now in use for the quick conveyance of passengers and goods upon edge-railways. Jan. 26; six months.

Edwin Appleby, of Doncaster, iron-founder, for certain improvements in steam-en-

30 hours. The latter is just five miles an hour. I had a light breeze against me the process used for reducing iron ore, and whole way going and coming, so that no use other materials containing iron, to what is

sels and steam-carriages, a portion of which improvements is applicable to other purposes. Part of which improvement was communicated by a foreigner. Feb. 21; six months.

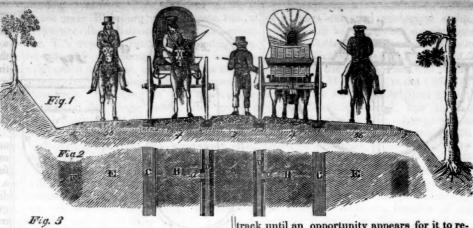
Alexander Gordon, of the Strand, engineer, for certain improvements in the boilers or generators of steam or vapor, and in condensing such steam or vapor, and in engines to be worked by steam or vapor for propelling or actuating machinery and carriages on land, and boats or vessels or other floating bodies on water. Being a communication made to him by a certain foreigner. Feb. 21; six months.

Robert Hicks, of Wimpole-street, Middlesex, Esq., for an improved method of, and apparatus for, baking bread. Feb. 21; six months.

Mr. JNO. S. WILLIAMS, Engineer and Superinintendant of the Cincinnati, Columbus, and Wooster Turnpike Company, some time since undertook (gratuitously) to survey the route from Goshen to Columbus, with a view as ofcertaining the best means of constructing a turnpike road thereon. A report has been made by him, and published by the board of directors, from which we learn that the estimated amount of forming a M'Adamized road the distance of 81 miles, would be an expense which Mr. W. doubts the propriety of incurring. Mr. W. enters into a detailed statement to show that wood can be substituted for stone in the improvement of roads, and gives instances, gathered from answers to interrogatories put to several engineers, of the durability of causeways so constructed, from which it appears that good timber laid in clay, and partly covered, will last from 20 to 30 years. From the estimates made by Mr. W. it appears that to cover a road with timber hewn a foot square and covered with earth, of 20 feet wide only, the expense would be \$257,419 80. This plan also is considered too expensive, and Mr. W. inserts a proposition for a track road, constructed of timber (see plate), the advantages of which he thus describes:

"It becomes necessary to inquire in what way timber, which is so plenty, and appears to last well, can be disposed of to our advantage. My reflections upon this subject have brought me to believe that timber hewn flat and laid in ways or tracks lengthwise of the road, to bear the pressure of wheels, would insure the end desired. The method that I believe to be the best is to hew and lay four ways or tracks, two quite flat, say one foot on the face, and two furrowed or guttered so as to receive the near wheels of all waggons and carriages.

"These tracks ought to be laid about five feet apart from centre to centre. The gutter or furrow made to receive the near wheels of carriages should be about 3 inches deep, and say 4 inches flat in the bottom, the tops being 6 or 7 inches open. This would receive the wheels of all or most waggons. The centre of this track, laid say 5 feet from the centre of its fellow track, which is a foot on the face, would give such a diversity of width, that while the near wheel is kept in the furrow the off wheel would be on the other track, notwithstanding a small diversity in the width which



the near or inner tracks, and the horse path

riage ways; eight and a half feet on each side in a 33 feet graduation.
"For the purpose of draining, these tracks

should be inclined not less than half a degree. terials of construction. In fact, no part of any M'Adamized road ought to be less. The near or guttered tracks might perpetuity of such a road, it may be well to ob-be changed for a few inches at the foot of the serve that at present, on a great portion of the be changed for a few inches at the foot of the slopes from the guttered to the flat form without any inconvenience to the travel: this would form a side drain across the horse-paths. The outer tracks being flat would present no obsta-

cle to draining.
"By carriages keeping always to the right, the power of this kind of road I conceive would be much greater than that of common roads, for more carriages could operate upon them with-out obstruction or danger, than if allowed to run promiseuously.

"As respects the ease of travelling, a road thus constructed being perfectly smooth and side-forever be cultivated upon the sides of the road, wise level, I conceive it would be superlative. It is observable, in the travelling of M'Adamized or other roads, that a great difficulty exists in keeping the wheels of waggons out of the continue to exhaust the present existing materuts or furrows that wear, or accident has made in the road. There seems to be a propensity al. This would in future prove to be a serious in the road. There seems to be a propensity al. This would in future prove to be a serious or habit in horses to follow each other, and condisadvantage in districts of country but scantily sequently to run in the same track. In this order they are the most easily driven. This very propensity or habit of horses is a drawback of twenty per cent. upon the permanence on them a coat of gravelly earth, which abounds of M'Adamized covers. It is our privilege, if in many parts of the country destitute of stone, not our duty, to turn if possible this propensity and can be procured and laid at a very small cost. not our duty, to turn if possible this propensity to our advantage: thus, in such a road as the one under consideration, little or no trouble would be necessary to keep the wheels steadily and regularly in the tracks. When snow would cover the road and thereby render the tracks obscure, the chances would be in favor of the horse and driver's paths be M'Adamized to the road being frozen so as to bear in early parts of the country destitute of stone, and can be procured and laid at a very small cost. "Gravelly earth will present an even and pleasure and to travel, if the weight of loaded wheels can be kept from it, as is witnessed on the tow-paths of our canals, where constructed of that material. But I would suggest that the horse and driver's paths be M'Adamized to the

track until an opportunity appears for it to re-sume its proper one: the driver's path being raised but three inches.

"As to the lastingness of timber thus situated, I am of opinion it would be good. The earth or clay would completely envelope every stick its whole length, except the upper surface, by which its native juices would be completely extracted, particularly if the timber be large should be gravelled or M'Adamized on a level enough to cut through the heart. As to the with the face of the outer track, and rise gently with the face of the outer track, and rise gently across the horse path towards the near track for great length of time, my experience in the purpose of draining, the depth of the furticular is too limited to assert positively, but from what observations I have been able to the purpose of this circumstance. "The two near tracks ought to be laid about four feet apart, from centre to centre, and gravelled or M'Adamized between them, for what I shall call the driver's path. This path would accommodate footmen, horsemen, and teamsters, or, if thought best, a horseman's path whe constructed on each side of the outer. may be constructed on each side of the outer would wear they would give more room, and or off tracks. Four feet for the driver's path, thereby be less likely to wear, it is not unreaand five feet each for the horse paths, together sonable to conclude that good timber well laid, with six inches on each side for the surplus under an ordinary travel, would last on an avewidth of the outer tracks, make a total width rage of fifteen years. The near tracks might not last more than ten, while the outer or off tracks would last twenty. There being little or would be the width of summer road and ditch no jolting, or even jarring, the great source of wear in common roads, the track-road would out-last all others, respect being had to the ma-

" In regard to the cost of constructing, and the can be improved in any manner. On no part will timber have to be moved far from its native to its destined locality, and as regards perpetuity, the prospect is more favorable than that of M'Adamized roads in a country where lime-stone, the material of construction and repair, is barely sufficient for other branches of improvement, during this and coming ages. Good oak and other timber can at all times and rendering it at once beautiful, pleasantly shady, and perpetual: advantages by no means attending M'Adamized roads, which will forever supplied at present.

The horse paths, the driver's path, and the summer roads, might be improved by laying up-

road being frozen so as to bear in any part, and depth of six inches, which would be amply sufexists between the wheels of different waggons.

"The face of the outer or off track should be laid on a level with the bottom of the furrow in five feet of each summer road, or at least construct the upper surface of them of the most solid earth in the neighborhood. The tracks may be laid of timber, round except the upper It would, however, be better to form them of large, well grown timber, split or cut through the heart: the sides squared, so as to take off the bark and white-wood. These tracks may be of pieces any convenient length, with ends brought to a determinate thickness, and laid upon a block placed to receive them. The under side of the tracks ought to be straightened or partly flattened, in order to secure a more steady position of them. The earth ought to be closely applied to the bottom and sides, not only to effect this object, but to secure a more speedy extraction of the acid from the wood. The limey quality transferred from M'Adamized horse and driver's paths to the wooden tracks, would be likely to prevent both wear and decay. Where the road is necessarily much curved, it ought to be M'Adamized and the tracks dispensed with, particularly if good material is convenient, which is almost invariably the case, where your line is crooked. The line from Goshen to Columbus, as will be seen by the map, is laid almost entirely of long straight lines, not more than one mile and eighty-two poles requiring to be M'Adamized, and that where the stone is most plenty. Eighty miles of the line, therefore, is suitable for tracks, which ought first to be laid of squared timber, after which the two inner ones might be guttered or furrowed by machinery propelled by steam or animal power, and moved along the tracks simultaneously as the operation proceeds.

"The proposed method of improvement, is

found to answer the purposes of traffic and tra-vel, whether it shall last equal to the expecta-tion of its inventor or not, will be found to be one of immense utility, by reason of the cheapness of its first construction, which brings the first cost of improvements to a level with the scanty means of a country newly settled, and as it were yet in the wilderness."

Mr. Williams advocates, with much earnestness, internal improvements of every description: the report is well drawn up, and is of itself evidence that it has been done by a hand well acquainted with the subject upon which it We think, however, that in speaking of the probable advantages to be derived from systems that he recommends, he is rather too sanguine of the result. We cannot do better than let Mr. W. speak for himself:

"Any state or nation that would adopt a general system of internal improvement by roads and canals would do away sectional jealousy. The interests of the different parts would become one by the common course of intercommunication. Inter-marriages would take place, and a general diffusion of acquaintanceship, and a union of interest would be the result. At the same time that wealth, the source of power, would be thus increased, power itself would follow its consequence of the system. The means of intercourse would give a facility to the transportation of men to defend the country, and stores to render those men comfortable; munitions of war, too, would reach every point to render formidable those forces, which with the greatest facility could be conveyed so as to render the effective force double to what the same means would be without it. This system would at once unite the citizens as if they in-habited but a small island, while at the same time they would be as strong as if they filled a vast territory."

Such a state of things is very desirable, and perhaps may occur, but we think it not likely in our time. Mr. W. concludes the report thus: "The hand which guides this pen was among

the first to fell the trees of the interminable territorial forest, to let the sun see the soil that now in the state of Ohio presents so many pleas ing subjects for contemplation and reflection."

Affording another instance that, in a free coun-ry like this, industry and talent will always be duly appreciated, and in most cases amply re-

[Since the above was in type we have reeived a communication from Mr. Williams, by which we learn that the Company have determined to construct eight miles of road on this plan .- ED. MEC. MAG.]

Abstract of the Charter of the New-Jersey Railroad and Transportation Company .tions 1st, 2d, 3d, 4th, and 5th, simply give the name of the Company; the amount of capital, which is \$750,000, with liberty to double it, and the shares to be \$50 each; the names of the commissioners and the place of receiving sub-scriptions; the number of directors and the manner of electing them; and the power to call in instalments of \$5 each, and of appointing a resident, engineers, treasurer, &c.

Sec. 6, Authorizes the directors to survey lay out, construct and repair, a railroad not more than 66 feet wide, with as many sets of tracks as they think proper, from such point in the city of New-Brunswick as shall be agreed on by them and the corporation of that city, "through or near the village of Rahway and Woodbridge, within half a mile of the markethouse in Elizabethtown, and through Newark, by the most practicable route, and thence contiguous to or south of the bridges crossing the Hackensack and Passaic rivers, crossing Bergen Ridge south of the Turnpike road, to some convenient point, not less than 50 feet from high water mark on the Hudson river, opposite to the city of New-York." It further authorizes the Company to make a branch road to any ferry on the Hudson opposite to New-York, It further authoriwhich branch shall join the main road within 100 yards of the Hackensack river, if the main road cross the river within 100 yards of the present bridge, but if it crosses it more than 100 yards from the bridge, then the branch shall join it at such point west of the river as shall be best calculated to give to the ferries equal facilities of communication with Newark, and if the Company do not construct such branch as soon as the main road from Newark to the Hudson is made, then the owner of the ferry is authorized so to do, with the same power and under the same liabilities with the Company. The Company are also authorized to enter upon and take possession of any lands necessary for the cite of the road, and if the owner of such land and the Company do not agree on the price, either of them may (at the cost of the Company) apply to a judge of the Supreme Court, and have three commissioners appointed from the county in which the land lies, to estimate the damage arising to the owner from the occupancy of the land, and also from removing, making and maintaining fences: and if the owner is dissatisfied with the appraisement, he may appeal to the Common Pleas and have his damages estimated by a jury, but will recover no costs unless he recovers more than the appraisement.
Sec. 7, Empowers the Company to build

bridges, fix scales and weights, raise embankments, &c. and to take materials therefor, subect to compensation, to be ascertained as in the case of lands.

Sec. 8, Authorizes the Company to regulate the time and manner of transporting goods and passengers, the description and formation of carriages, and the rates and modes of collecting tolls, which are not to exceed the following rates, viz.: for empty carriages weighing less than a ton, 2 cents a mile; more than one and less than two tons, four cents; above three tons, eight cents, and in addition thereto six cents a ton for goods and 3 cents for each passenger per mile; Provided, that no farmer of this State shall pay toll for carrying the produce of his farm in his own waggon not weighing more than a ton, when such produce does not weigh more than 1,000 lbs., but shall pay only for carriages as if empty. It also authorizes the Company to construct branches to any the Company to construct branches to the Company to construct branches to the Landing on or near the Passaic, not north of the centre of the State from New-York Philadelphia.

Sec. 9, Requires the Company to commence the road at Jersey City and New-Brunswick, within two years, and to complete the whole route in five years, under penalty of forfeiting their charter.

Sec. 10, Authorizes the company to purchase any turnpike road and bridges on the route, and reserves to the State and individual stock-holders of the Newark Turnpike Company the right at any time within two years, from the ppening of the books, either to take an amount of the stock of the company equal to the fair market value, at the time of passing the act of their stock, or to sell out the same to the company, at that value, which is to be estimated by the Chancellor, in case of disagreement; but the Newark turnpike, and the bridges over the Raritan, Passaic, and Hackensack, are to be kept as public roads, without obstruction.

Sec. 11, Empowers the company to cut sluices and make embankments, to prevent the rail-road from being overflowed by the tide. Sec. 12, Makes it lawful for the company to

arry the railroad across roads and streams, not impairing their usefulness, and if they cross any navigable river, they may build a bridge, with a draw not less than thirty feet wide, and are bound to keep a light during the night, and open the draw when necessary, under penalty of ten dollars for every neglect.

Sec. 13, Authorizes the company to build or purchase carriages for the transportation of persons or property; but they are not allowed to charge more than six cents a mile for transporting passengers and each ton of goods, nor more than \$1,25 for carrying pas-sengers from New-York to New-Brunswick.

Sec. 14, Empowers the company to hold real estate at the commencement and termination of their roads, not exceeding 3 acres at each place, and build thereon ware-houses, stables, machine shops, &c. and to build on the Hackensack and Passaic rivers such bridges, piers, wharves, &c. as they shall think necessary for the full enjoyment of all the benefits conferred by the act.

Sec. 15, Imposes upon any person who shall wilfully injure the road, or any of the buildings or works of the company, a penalty of three times the amount of the damages done.

Sec. 16 and 17, Gives the State the right of purchasing the road, at a price to be ascertained in the mode marked out by said sections, after the expiration of the charter.

Sec. 18, Imposes an annual tax of 1-4 per cent on the capital paid in, and exempts the road from all other taxes; and if the railroad should be continued across the State, a transit duty of 8 cents for each passenger, and 12 cents for every ton of goods, transported over the whole road, is to be paid to the State.

Sec. 19, Empowers the directors to call special meetings of the stockholders, for any purpose they may see fit; and Sec. 20 requires of the company to make and repair bridges or passages, wherever the railroad crosses any highway, or intersects a farm.

Sec. 21, Reserves to the State the right of taking 4th of the Stock. Sec. 22 declares it to be a public act, and Sec. 23 restricts the use of the funds of the company to the purposes of

the act. It is required by the supplement to the act relative to the Delaware and Raritan Canal, and Camden and Amboy Railroad, "that it shall be the duty of the said companies to construct a lateral railroad from a suitable point on said road, at or west of the village of Spotswood, to a suitable point or points in the city of New-Brunswick, which said lateral road shall be completed as soon as any railroad shall be made from the said city of New-Brunswick to the Hudson river"; consequently this branch road is required to be made as soon as the New-Jersey Railroad is completed to New-Brunswick, and by this means whenever the New-Jersey Railroad is finished, there must be a complete thoroughfare by railroad through W Rought Dear In Jam wery way for the mistate of point - but of he has Still sol soul it Men Sous Jale - painte any time you send in

From the New-York Mechanics' Magazine.

[We make no apology for introducing to greatest advantage. the notice of our readers a fac simile of the liberty of the subject was infringed, his apwriting of Henry Brougham, satisfied that peals to the jury were exceedingly animated it will gratify many who admire the character and talents of that distinguished individual. We shall occasionally insert engravings of the autographs of men distinguished for their literary and scientific attainments, accompanied (if possible) by a short sketch of their public

SKETCH OF HENRY BROUGHAM.
[Compiled from suthentic sources.]

We have not forgotten that this most distinguished individual has been raised to the Peerage, and has received the highest honors in his profession that his sovereign can be stow upon him, but we prefer to speak of him in the simple name, which, like those or GEORGE WASHINGTON, JAMES WATT, Ro-BERT FULTON, and many others, can never receive additional lustre by any title. was born in Westmoreland, where his mother still resides, and at an early age was called to the bar in Scotland, where he practised as a barrister for several years, de-voting a considerable portion of his time to literary pursuits. It is only with his public character, whether as a statesman, an author, a barrister, or a judge, that we have to do, and in each of these has he shone with a

Mr. Brougham has perhaps appeared to the In all cases where the -he seemed, in fact, to enter personally into the feelings of his client. One of his most splendid efforts was at the bar of the House of Lords, where he appeared as Attorney General for the late Queen. The powerful arguments in support of her remonstrance against the introduction of the Bill of Pains and Penalties into that house, can never be duly appreciated, even by those who have read them: those only who had the great privilege of being present can form any conception of the energy displayed, and the powers of mind he evinced, on that occa-The profound attention it commanded from the members is, of itself, alone a sufficient guarantee of its brilliancy.

We can bear testimony to the correctness He of the following vivid description, written by a gentleman after hearing him for the first time plead at York Assizes:

"He rose with an expression of staid gralarly struck with the fixedness of his gaze. He seemed not so much to look at the jury as to look through them, and to fix his eye upon them, less for the purpose of seeing how nerally retained by the defendant, and had, in most cases, to cope with the legal know-ledge and talent of Sir James Scarlett, who, for a long time, was Attorney General for the County Palatine of Lancaster. In defending particular actions for libel, and in vindicating the general liberty of the press,

quence was poured forth like a torrent, strong, copious, and impetuous. He first took ex-tensive views, and laid down general princi-ples applicable to the case: then he applied these to the particular facts, examining the testimony of each witness, and showing its weakness, the suspicion attaching to it, and its inconsistency, either with itself or with the other parts of the evidence. He displayed as much skill in exposing and concentra-ting the weakness of the opposite side, as in exhibiting his own strength. He lashed some of the witnesses without mercy, and covered them with his sarcasm. His sneer was terrible. He then unfolded his own case with great clearness, and made it appear that he had evidence which would quite overthrow that of the other side, and leave not the shadow of a doubt on the minds of the jury. The case being one which required both physical and metaphysical observations, from involving a question of bodily and mental derangement, Mr. Brougham's universal knowledge enabled him to treat it in a very luminous manner: he seemed to combine the professional skill of the physician with the just and profound views of the philosopher. He gave a most striking picture of the diseased and doating testator, coloring it with almost poetical brilliancy, and bringing out the features with a breadth and force peculiarly his own. He gathered his illustrations from nature and from art, and levied contributions on science and literature. Every thing in the manner and matter of the orator bespoke *power*—the strength of his voice, the sweep of his arm, the piercing glance of his eye, his bitter scorn, his blazing indignation, the force of his arguments, the inevitable thrust of his retort, and the nervous vigor of his style. He despises the graces of elocution, but seems to have unlimited confidence in the strength and resources of his intellect. In short, this was the highest oratorical achievement it has fallen to my lot to hear, and it was of course successful, though it was not one of his greatest efforts.

As a statesman, Mr. Brougham has always appeared uniform and consistent, never swerving from his avowed principles when he entered public life. His earliest efforts as a British senator were distinguished by the same regard to the rights of individuals, and the liberties of the country, which he has uniformly manifested to the present time. Nor was he then less firm in opposition to what he deemed the encroachments of the crown, and the extravagances and abuses of the government, than he has proved since. His bold denial of the sovereign's right to the droits of the Admiralty, in 1812, will not soon be forgotten; and, vity and collected power. His exordium was deliberate and impressive, and I was particu- few can help wishing that he had been able, during a season of enormous expenditure, to bring that prolific fund in aid of the exchequer.—We cannot deny ourselves the grati-fication of extracting from a speech of Mr. splendor that will long cause the name of they felt, than to rivet their attention, and as Henry Brougham to be revered and respected.

Brougham in 1816, on the treaty of the Hoit work with the suddent of the suddent As a barrister, Mr. Brougham enjoyed an extensive practice for a series of years, particularly on the Northern circuit, being generally retained by the defendant, and had, the calm and masterly manner in which he think there is something suspicious in what a after professing a vast regard for truth, reli-||hours' duration, yet he did more in one short||been familiar with the reading public. state—they made war against that unoffending country, which found little reason to felicitate itself on its conquerors being distinguished by Christian feelings. The war against Poland, and the subsequent partition of that devoted country, were prefaced by language very similar to that which this treaty contains, and the proclamation of the empress Catharine, which wound up that fatal tragedy, had almost the very same words."

Among the most prominent of his later efforts in the House of Commons, may be mentioned his lucid speech on his introduction into that house of a "Bill to amend the State of the Laws;" it occupied nearly eight hours in delivery, and so arrested the attention of a full house, that the newspapers of that time remarked that they never remembered the house so orderly. Until the year 1828 Mr. Brougham was returned to Parliament for one of those decayed boroughs which were under the immediate influence of some of the Whig peers. In that year a vacancy occurred in the representation of Yorkshire, (the largest county in England,) and he was, without solicitation on his part, triumphantly returned to fill that vacancy, although he had no connection whatever with his new constituents. He had scarcely taken his seat when he announced that it was his intention to bring forward a bill for Parliamentary Reform. A day or two previous to the one that was arranged for the introduction of that bill, the Duke of Wellington's Tory administration was dissolved, and his Majesty called EARL GREY to his Councils. The immediate consequence of that step was the elevation of Mr. Brougham to the Peerage, under the title of Baron Brougham and Vaux,* and his appointment to fill the joint offices of Lord High Chancellor of England, and Speaker of the House of Lords. The influence and power that was thus placed under his control he has used in a manner that does honor to his heart, and is quite consistent with the principles he had always advocated, in Parliament and out of it, during a series of years. Among his earliest efforts, after his installation into office, may be mentioned his own motion for reducing very considerably the emoluments attached to the offices he held his sweeping reformation of the abuses of the Bankruptcy Laws-his unceasing efforts to purge the vices of the court over which he was placed to preside—his strenuous exertions in the holy cause of Parliamentary Reform, the triumph of which is mainly attributable to his and Earl Grey's inflexible and unbending political honesty-his nevertiring advocacy of the abolition of the Slave Trade-and his arguments, whenever opportunity presented itself, (and they continually occurred in Parliament,) in favor of any and all measures that had a tendency to promote the amelioration or removal of civil and religious disabilities. When it is known that during the whole period these measures were progressing, he had almost daily to attend Cabinet Councils, of frequently three or four

Who can but witness with pleasure the rapid progress education is and has been making for some years past? Elementary instruction is now so quickly impart-ing to the great mass of the people, by political changes the frame of society may be shaken.

wherever popular education was advocated, associated, in my native city. There is only whether at the Royal Society or at the Mechanics' Institution, he was always foremost towering height of his mind, and from the in the van.* movers in getting into successful arrange. by capacity and acquirements, above all ment the operation now continued with so much success in that establishment. Nor must we omit to notice the great benefits he has rendered to universal education, by plan-tal."—[Ed. Mec. Mag.] has rendered to universal education, by planning and forming the Society for the Diffus. ing of Useful Knowledge; among the committee of which will be found men of all political parties, of influence and wealth, and great talent, combining their efforts to spread knowledge throughout the world.

As an author, Henry Brougham has long

a very early age he communicated some scientific articles for Dr. Brewster's Edinburgh Cyclopedia, and ever since the estabcided—his predecessors frequently leaving lishment of the Edinburgh Review he has been a zealous supporter of that work, and some of the most profound and ingenious arversatility of talent displayed in one individ-ual. Nor is this all; for while thus engaged from his pen. Nor has he confined his contributinos to the Edinburgh Review. He is known to be the author of several papers in Nicholson's Journal, and in the Philosophical Transtions, it is really almost incredible that he actions—papers which discover the varied nacould find time to attend to literary pursuits; ture of his studies, and how well he has furyet it was so. He acted as Chairman for the nished his mind with the diversities of natural Society for Diffusing Useful Knowledge, and and artificial, as well as legal and political very frequently attended to the duties im- science. The chief entire work which bears posed upon him by that committee; and by his name is entitled 'An Inquiry into the virtue of his office, was at the head of the Colonial Policy of the European Powers.' London University, and of the King's College In addition to these, a masterly pamphlet on also. We now turn with peculiar gratification the state of the nation, and several speeches to notice some of the gigantic efforts he has on special occasions, which have appeared in print, deserve to be mentioned among the samples of his literary pre-eminence. In rupt arcana of the most ancient and ex- these and other productions of his pen, he tensive of the benevolent institutions in his shows a capacity of mind which takes in any own country, are well known and appreciated by a discerning and grateful public. Nor nute its details. In all his works, he is evihave they been without success: a commis- dently much more intent upon matter than sion of inquiry continues to proceed in its manner; yet few men are gifted with clearer necessary work : several great charities have perceptions, or capable of more rich and apalready completely changed their character, propriate illustrations, especially from the and others in fear are beginning to reform first rate classics, with whose best passages he seems perfectly familiar.

His last avowed production is the admirable treatise on the Objects, Advantages, and Pleasures of Science, a part of which we have already transferred into our columns.

We shall conclude this imperfect sketch the most simple and economical means, by a short extract from a lecture delivered that whereas in the last generation it was difficult to find a peasant who could read, in sor Paterson, of Philadelphia, in the sentithe next it must be much more difficult to ments of which we fully concur. He says, find one who cannot. This is undoubtedly one of the best signs of the present times. By this the rising age of the lower and low-ciated with many other characters, who, with est ranks are receiving a moral elevation, justice, are admitted to be the most illustrious of which no time, or change, or accident, can of her sons. Before I knew them, I confess deprive them. This must insure the dura-the vastness of their intellects loomed on my tion of wisdom, the enlargement of liberty, imagination. They appeared, at a distance, and the propagation of religion, by whatever more than MORTALS; but, when known and examined in person, I found them merely MEN, differing in no very remarkable fea-To HENRY BROUGHAM we are indebted for tures of intellect or character, from the dismuch of this: amidst his various occupations, tinguished individuals with whom I have been The great interest he took in rich and exhaustless stores of his informafounding the London University is fresh in tion, has realized all my imaginings of a great our memory. He was one of the prime man-a man differing from, and far exalted,

> CLAY FOR SCULPTORS .- Sculptors, who prepare their models in clay, have frequently occasion to leave their work for a long time unfinished, and in such cases often experience much difficulty from the drying and shrinking of the material. It is well to know that by the addition of ten to fifteen per cent. of muriate of lime, well worked or kneaded into the clay, it will be preserved for almost any length of time in a moist state, and fit for a renewal of the work without any preparation.—[Jour. des Connais. Nov. 1832.]

gion, and justice, they adopted a course session to bring up arrears of business in the which brought much misery on their own subjects as well as those of a neighboring been done, having left but one cause undesession to bring up arrears of business in the two or three hundred,-our readers cannot but wonder at the vast power of mind and in Politics, Legal Reform, Parliamentary Reform, the duties of his office in Parliament, and the due performance of his judicial funcmade in the cause of universal education. His resolute efforts to throw open the corand others in fear are beginning to reform themselves.

^{*} Henry Brougham and his friend, Dr. Birkbeck, were among the first who responded to the call when a proposition was made to establish the London Mechanics' Institution; their exertions and their example did much to promote its success. They contributed liberally to its funds, and, indeed, unless such men had taken the matter in hand, we have reason to believe the attempt to found such a society, at that time, would have been worse than fruitless.

^{*}When it was made public that Mr. Brougham was to be made a member of the upper house, solicitations were made from many with whom he had been connected in promoting various laudable objects, that he would still retain the name of Brougham, as the association of it with institutions having for their aim the welfare of mankind seemed so natural, that it would be to them a matter of great regret to be deprived of it.

tendency that bodies have to approach each And first, in elucidation of this subject, if you throw a stone, or shoot an arrow into the air, instead of proceeding according to the direction in which you send it, you see its course is quickly spent, and it returns to the earth with a velocity or swiftness proportioned to its bulk or weight. Now, it is easy to conceive that the resistance of the air may stop it in its progress: but why should it return? Why should not the resistance of the air stop or impede it in its return?

The answer you will think very plainis its weight that brings it back to the earth, you will say, and it falls because it is a heavy body. But what is weight—or why is it heavy? It is, in truth, the earth that draws or attracts the stone or the arrow towards it; this overcomes the force with which you sent it from you at first, and the resistance which the air would otherwise make to its

To make this plainer, if you drop a little water, or any other liquid, on a table, and place upon the liquid a piece of loaf sugar, you will see the water or fluid ascend, or in vulgar language, be sucked up into the pores of the sugar: that is, the one attracted by the other. Again, if you take two leaden bullets, and pare a piece off the side of each, and make the surface, where you have taken off the piece, exceedingly smooth, and then press the two balls together, you will find them adhere strongly together, that is, they are mutually attracted by each other.

If you take a piece of sealing wax, or amber, with a smooth surface, and rub it pretty quickly upon your woollen stocking till it gets warm, you will find that if straws, feathers, hairs, or any very light bodies, are brought within the distance of from an inch to half an inch of it, these light bodies will be drawn to tion only we shall at present enlarge, because the sealing-wax or amber, and will adhere to it. Thus, in philosophical language, they

are attracted by it.

This last effect is very similar to what may be observed of the magnet or loadstone, or what is often performed by the little artificial magnets, which are commonly sold, and a globe, it is manifest that it must be endued which afford a very rational and pretty

amusement to young persons.

But what is a still more surprising effect of attraction, if we take two phial bottles, which we number 1 and 2, and fill each of them with a fluid perfectly colorless, we see they appear like clear water: on mixing them together, we will observe the mixture becomes perfectly black. We take another phial, No. 3, which contains also a colorless fluid, and we pour it into this black liquor, which again becomes, we see, perfectly clear, except a little sediment which remains Lastly, we take the phial, No. 4 containing also a liquid clear like water, and by adding a little of it, the black color we see is restored.

All this appears like magic, but it is nothing more than the effect of attraction. Philosophy keeps no secrets, and we will explain it. The colorless liquor in the phial No. 1 is water, in which bruised galls have been steeped or infused; that in No. 2 is a solution of copperas (called by chemists sal martis, salt of steel,) in plain terms, it is water in which common copperas, or green vitriol, is dissolved. The iron which this salt (green

gether they unite, and the mixture becomes black; in fact, is made into ink. But when particles lie less closely compressed or comthe phial No. 3, which contains aqua fortis, pacted together. This, then, is what is (or the nitrous acid, as it is called by the meant by specific gravity, that one body conchemists,) is poured in, the iron, which has a stronger attraction for it than for the galls, unites with it, and having left the galls, the liquid is again clear.

Again, the phial No. 4 contains salt of wormwood, in a fluid state, which the che-The aqua fortis is mists call an alkali. nitrous acid, therefore, has a stronger attrac-philosophy. The planets and comets all tion for this alkaline matter than it has for the iron; it therefore drops the iron, which other, as well as the sun towards them, and again unites with the matter of the galls, and that in proportion to the quantity of matter you see the fluid resume its black complex-These several kinds of attractions, tion. which we have now mentioned, philosophers have arranged under five distinct heads. The first, that we mean of the stone or the arrow falling to the ground, they have called the attraction of gravity, or gravitation.

The second, that of the two leaden balls adhering together, and of the water ascending into the pores of the sugar, they call the attraction of cohesion, and also capillary at-The third is electrical attraction, traction. because the sealing wax, when chafed or warmed by rubbing against your stocking, is in an electrified or excited state, like the glass cylinder of an electrical machine when rubbed against the cushion, and therefore attracts the hair, feathers, &c. The fourth is the magnetic attraction; and the fifth is called chemical attraction, or the attraction of combination, because upon it many of the processes and experiments in chemistry depend; and because by this means most of the combinations which we observe in salts, the ores of metals, and other mineral bodies, are effected.

On the two first of these species of attracit will be necessary to treat of the others when we come to investigate those branches of science to which they properly belong.

First, therefore, of gravitation. It requires no experiment to show the attraction of gravity; for since the earth is in the form of with a power of attraction to keep upon its surface the various bodies which exist there, without their being hurled away into the immensity of space in the course of its rotary diurnal (or daily) motion. The earth has, therefore, been compared to a large magnet, which attracts all smaller bodies towards its centre. This is the true cause of weight or gravity (which mean the same thing.) All bodies are drawn towards the earth by the force of its attraction, and this attraction is exerted in proportion to the quantity of solid matter which any body contains. Thus, city than solid bodies. "The pearly dew" when two bodies are placed in opposite scales, and we see one preponderate, we say it is heavier than the other; in fact, that it contains a greater quantity of solid matter for as every particle of matter is attracted by the earth, the greater number of such particles any body contains, the more forcibly it will be attracted. We know, by experience, that the weight or gravity of a body or thing is not in proportion to its bulk. bullet of lead, of the same size as one of wood, or of cork, will weigh infinitely heavier, and one of gold would be heavier still. brought near to each other, will seem to run It is reasonable, therefore, to suppose that together and unite. dissolved. The iron which this salt (green the ball of gold, or of lead, contains a greater stances, however, in certain circumvitriol) contains has a strong attraction for number of solid particles, which are united stances, appear to possess a power the re-

ATTRACTION.—By attraction we mean the the gall water, and when they are mixed to for pressed closer together than those of the

It is one of the laws of nature, discovered by Newton, and now received by all philosophers, that every particle of matter gravlaw is the main principle in the Newtonian gravitate towards the sun, and towards each in each.

All terrestrial bodies tend towards a point, which is either accurately, or very nearly, the centre of the earth; consequently, bodies fall every where perpendicular to its surface, and therefore on opposite sides in opposite directions. As it acts upon all bodies in proportion to their quantities of matter, it is this attractive force that constitutes the weight of bodies.

The cause of gravity is totally unknown. Many theories have been invented to account for it, but they have been all mere hypothesis or conjecture, without any solid foundation.

II. The attraction of cohesion is observable in almost every natural object, since in reality it is that which holds their parts together. It has been already demonstrated, in the experiment of the two leaden balls, and the same effect will be proved by pressing together the smooth surfaces of two pieces of looking-glass, particularly if a little moisture is dropped between them to exclude the air more perfectly. The adhesion or tenacity of all bodies is supposed to depend on the degree of this attraction which exists between their particles; and the cohesive power of several solid substances has been ascertained by a course of experiments, in which it was to put to the test what weight a piece of each body of one tenth of an inch diameter would sustain, and the weights were found to be as follows:

Raw flax, .	37 lbs.	Ash, .	 50 lbs.
Horse hair,	45	Zinc, .	18
Raw hemp,	46	Lead, .	291
Raw silk, .	531	Tin,	401
Fir wood, .	23	Copper,	299
Elm,	35	Brass, .	360
Alder,	40	Silver, .	370
Oak,	48	Iron, .	450
Beech,	50	Gold, .	500

This cohesion is also visible even in fluid substances, the particles of which adhere is a well known phrase in poetical language, and the drops of rain, or of dew, upon the leaves of plants, assume this round or pearly appearance by the attraction which the par-ticles have for one another. In the same manner quicksilver, if divided into the smallest grains, will appear round, like small shot, because the particles attract each other equally in every direction, and thus each particle draws others to it on every side, as far as its power extends. For the same rea-son, two small drops of quicksilver, when

verse of attraction; and this is called in philosophical language, repulsion.

On the Stomach Pump—Method of dislodging Poison from the Stomach without it, &c. By Dr. Arnott.

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11ot, ch as a. en un m e. A small pump, called the stomach pump, has lately been used in medical practice, for removing poisons from the stomach in cases where the action of vomiting could not be excited. It has already saved many lives. It resembles the common small syringe, except that there are two apertures near the end, instead of one, which, owing to valves in them, opening different ways, become what are called a sucking and a forcing passage. When the object is to extract from the stomach, the pump is worked while its sucking orifice is in connection with an elastic tube passed into the stomach, and the discharged matter escapes by the forcing orifice. When it is desired, on the contrary, to throw cleansing water, or other liquid, into the stomach, the connection of the apertures and the tubes is reserved.

As a pump may not be always procurable when the occasion for it arises, the profession should be aware that in many cases a simple tube will answer the purpose as well, if not better. Such a tube being introduced, and the body of the patient being so placed that the tube forms a downward channel from the stomach, all fluid matter will escape from the stomach by the tube, as water escapes from a funnel by its pipe; and if the outer end of the tube be kept immersed in drastic purgatives and pernicious bleedings leys were always dry; no grass or weeds syphon action of considerable force. On then enough, might, if desired, be rendered a coman intervening vessel.

from a torpid stomach, viz. merely to place the patient so that the mouth shall be considerably lower than the stomach,-as when the body lies across a chair or on a sofa

cient office of injecting the enema is still the more important, and recent experience seems to show that such injection may become a yet been suspected. From an erroneous of the cœcum acts as a perfect valve, allowing have ventured to order much liquid to be injected, for fear of overstretching the lower

METEOROLOGICAL RECORD, KEPT IN THE CITY OF NEW-YORK,

For the Week ending Monday, May 6, 1833, inclusive. ed for the American Railroad Journal and Advocate of Internal Ir

Date.	Hour.	Thermometer.	Berometer.	Winds.	Strength of Wind.	Clouds from what direction.	Weather and Remarks.	lowing results : 634—and from ow : From the
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Monday, " 6	6 a. m	49	30.22	NE	faint	sw	cloudy-smoky	
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	6	57	30 · 15	SSE		*		A ST SY E
	10	56						A MARKET

liquid, there will be during the discharge a now used, and often used in vain. From appeared on it, but the plants within a few what has been said above of the abdomen inches of it all died. He was delighted changing the posture of the body, water may be poured in through the tube to wash the stomach, and may by the same channel be uniformity over the whole. This tendency again discharged. Such a tube, made long may be rendered obvious to sight, by throwing a sheep's intestine, recently extracted, plete bent syphon, the necessary prelimi- into a bucket of water, and then pumping soft refuse instead of mortar. It soon hardnary suction being produced by a syringe, or water in at one end: a stream will issue by the mouth of an assistant, acting through strongly at the other end, although several feet distant, almost immediately, and without But there is a still easier mode than either any intermediate part having become very of these now described, of dislodging poison sensibly tense. Of course, in the living body in cases of spasm or obstruction, the liquid must be thrown in against resistance very gradually.

That case is called introsusception of the with the face near the floor, -and then, if bowel, in which an upper portion falls, or is necessary, to press on the stomach with the received into a portion below, -as one part hand. The cardiac orifice opens readily in of the finger of a glove may be received into such a case, and the stomach is inverted like another part,—and the receiving portion of any other inverted vessel. Useful as the pump may prove upon occa-sions, in evacuating the stomach, its more anproves fatal. Many infants, with irritable bowels, die of it. Now, a copious enema, such as we have described above, is almost remedy of more extensive utility than had a certain cure. The liquid advances until it reaches the part where the portion of gut opinion, that what had been called the valve has been swallowed by gut below; and as it cannot pass without pushing the introsusceppassage downwards only, few practitioners ted portion back to liberty, it effects the cure.*

with this discovery of the means of enjoying clean and dry walks without any trouble, having only to put a covering of clean sand over the refuse. Having occasion some time after to repave his yard, he used the ened and cemented the stones so well, that the heaviest carriages occasioned no disadjustment.-[Jour. des Connais. Usuelles.]

AGRICULTURE, &c.

[From the New-York Farmer.]

AGRICULTURAL FAIR IN NEW-YORK.—By the following resolution of the New-York State Agricultural Society, it will be perceived that a Fair is to be holden in October next. Farmers, and those in any way interested in promoting agricultural improvements, are requested to use their influence to carry the objects into

Resolved, That a fair for the sale of live stock, seeds, and other products of husbandry and of household labor, be held in the city of Albany, on the second Thursday of October next, and one in the city of New-York, on the fourth Thursday of the same month; and that the civil authorities and agricultural societies of those places be requested to make preparations for the holding of those fairs.

STIRRING THE SOIL IN A DROUGHT.—It is an established opinion, that the more the soil is heed harrowed, and ploughed, in dry weather, the better are plants enabled to withstand the want of rain. The recorded effects of frequently igeted, for fear of overstretching the lower part of the intestine; and the possibility of thus relieving, by injection, disease situated above the supposed valve, has scarcely been contemplated. It is now ascertained, however, that fluid may be safely thrown in, even until it reach the stomach. Perhaps few, if any, cases of obstruction of bowels could resist the gentle force of penetrating water, so that a mechanical remedy of certain effect may, in many cases, be substituted for the

Soiling.—It is stated on good authority, that a grass meadow in good heart, mown and eaten green, will, at a rough estimate, produce treble the quantity of milk it would have if pastured, and four times as much as it would have done in the form of dry hay.

SALT .- At this season of the year, when live stock are changed from dry hay to green pasturage, the effect on them is very considerable. Their offal, from being comparatively dry and hard, immediately becomes of a li-quid consistency. To prevent this sudden weakening effect, give a little salt dissolved in a little bran or meal and water, which will greatly increase the thriving of the cattle. In Germany portable sheds are put up in the fields for shelter, with salt constantly kept in a suitable vessel. A few quarts of bran wet and salted, and given to cows two or three times a week when they are turned to grass, will yield should remember that there are many forest a great per centage of gain in milk

IRRIGATION .- Every farmer should have in his yard a cistern, or some similar receptacle for his liquid manure. In our often dry and burning climate, watering grass and other crops would be the means not only of keeping the crops in a growing state until they are supplied with rain, but greatly enrich the land.

KINDS OF CROP. Farmers should not be guided much in the choice of crops for culture, from the high prices they now bear in market. They may, very probably, by the time they are able to get the crops in mar ket, become reversed in prices. Potatoes, for instance, command a poor price; and for this reason a farmer who has to buy his seed, should plant more potatoes than if they were

WEEDS .- Every farmer should make it a principle of duty to eradicate every useless weed, not only from the injury he may sustain, but from regard to his neighbor and the public. A few seeds from his field may be carried by the wind into those of his careless neighbor, and thus eventually a whole neighborhood become invested.

FRUIT TREES.—Grafted trees should be examined, and the clay or composition fallen off supplied. Useless suckers and side shoots ought to be removed. In some instances, when the suckers have roots, they should be set out for stocks. Young fruit trees, sprouting up about the fields should be taken up and put in the nursery or portion of garden allotted for that purpose.

To have your orchard trees to continue thrifty, particularly young ones, it is advisa-ble to have the ground for one or two feet around the body kept free from grass, every spring manured, and stirred several times in the course of the summer.

ROOT CULTURE.—There are many advan-tages arising from the cultivation of roots. From not ripening their seeds they are considered not to exhaust the soil as much as those that do ripen them. The soil becomes stirred and comminuted, and thus is fully ex-posed to the air. Weeds and poor grasses are more effectually destroyed. These crops are very productive. Potatoes averaging from 3 to 4 hundred bushels per acre, and turnips, ruta baga, mangel wurtzel, carrots, &c. from 6 to 8 or 9 hundred. They serve to alternate, and give variety to food for cat-tle in winter. Turnips are considered the

Suggestions relative to Farmers' Work for May. triffing trouble, require but little culture, re- By the Editor. to Gardeners' Work for main on the ground but a short time, are eaten main on the ground but a short time, are eaten by man and beast, and easily preserved over the winter. The seed of the mangel wurtzel is sown early in May, and costs from
75 cents to \$1.25 per pound. Four or five
pounds are required to the acre. These
raised for seed would, we should suppose. raised for seed would, we should suppose,

> manure covered lightly with soil, they succeed well, although they generally make good returns on almost any soils. Sometimes a portion of the cow-yard, or where there has been a dunghill, may be profitably occupied, by mixing heaps of sand or soil with the scrapings.

> FOREST TREES FROM SEEDS .- Farmers trees raised from seed that will sell well, and that are valuable for timber or fruit. Among these are the juglans squamosa, or shagbark hickory, and the j. regia, or Madeira nut. These trees, when two or three years old, will, in almost any neighborhood, sell for remunerating prices. Early in May is not too late to sow forest seeds.

> PREVENTIVES OF INJURY FROM INSECTS. Many farmers lose many of their crops by grubs and other insects. Cucumber, squash, melon, and pumpkin vines, as well as turnips are often destroyed by insects. To guard against them, the farmer should be provided with coarse tobacco leaves, soot, dry ashes, and the like.

> IMPROVEMENTS.--Every farmer should study out a plan of improving the value of his farm, and should persevere and follow it out, but be careful to avoid undertaking them any faster than he has means and time. If possible, always make the profits of the farm pay for the improvements.

MANURE.—Much has been said about long and short manure. When put on in spring, it is reasonable to suppose that it ought to be in a state of insipient fermentation at least. If not, the plant acquires more or less of its growth before it is sufficiently fermented and dissolved to be of service; and when it is in a state fit to nourish the plant, it produces an one light and moderately enriched. unnatural stimulus, at an improper time, causing the plant to run into leaf, straw or wood, when it should form or ripen fruit.

EXPENSIVE LABOR.—Many, after toiling for many years, find their hired help has consumed all their profits. Farmers thus situated should endeavor to alter or vary their plans of management, that they may introduce a system of culture that will be equally productive with less labor. By duly consid ring all the circumstances in which they are eaced, nine times in ten they will be able to mlake the desired change, without risk.

AGRICULTURAL WORKS .- However well farmers may think they understand their business, yet they would derive benefit from having a work on agriculture, to which they the air. Weeds are poor grasses or effectually destroyed. These crops could refer in reference to every operation on the farm. They would always find some hint or suggestion that would be more or less important. The physician, lawyer, and clergyman, think, and justly too, that they can not fill their stations without a library of books for reference. Is farming a calling so much lower that not a single volume is necessary?

Not a moment is to be lost this month.

make good returns.

Squashes and Pumpkins.—No farmer should neglect to have a liberal supply of the these. They are of much service in various rolina and Lima beans are not, except in very preparations on the table, as well as feed to hogs and cattle. Raised in hills, on ridges of manure covered lightly with soil, they succeed Lima, which require one considerably enriched.

> Beets .- Should the first sowing fail, the seeds may be again put in the ground the first of June.

> Borecole and Brussels Sprouts are sown mid-dle of May, and transplanted in July into good ground, in a warm situation.

> Brocoli.—The seeds of the purple brocoli may be sown about the middle of May; when of proper size, transplanted into rich ground.

Cauliflower .- The seeds may be sown early in May, and the young plants set out in the latter part of June in very good soil.

Cabbages.—The seeds of Savoy, late kinds, and red, are sown early this month.

Cucumbers.—The varieties to be planted this month are Early Frame, Green Cluster, and Long Prickley.

Corn.-Indian corn, the early varieties, should be planted to be eaten green.

Herbs.—The various kinds of medicinal, pot, and aromatic herbs may be sown. Many of these are not only very useful but saleable.

Melons.-The delicious nutmeg, musk, and water melons are to have a place this month. Sometimes it is necessary to thin the vines, and to pinch off their ends to increase their fruitful-

Okra.-Sow in drills near two inches deep and four feet apart.

Peppers.—The different kinds of pepper are own in a good soil this month.

Peas .- For succession crops, sow this month. To have them come up soon, soak them six to twelve hours. A little milk put in the water is said to cause the bugs to come out of them. Peas are said not to succeed as well with fresh unrotted manure.

Pumpkins.—This valuable vegetable is a pro-

Sorrel.—The broad and the round leaved sorrel may be sown this month, in beds or along borders, and when of some height, thinned out to the distance of nine inches.

New-Zealand Spinage.—Plant two seeds in a hill. It is of a luxuriant growth, and stands the heat of summer, at which season it is fit for use.

Squashes.—The early bush squashes are considered the best for gardens. The Vegetable Marrow, and the Cocoa nut Squash, are among the desirable varieties. Five or six seeds in a hill, and the vines reduced to three.

Strawberries.-Most writers recommend a few of the male or barren plants to be set out with the bearing ones. Mr. Floy, of New-York, advises the rejection of all those that are unpro-ductive. By pinching off the runners their bearing is increased.

24 dwts. 20 grs.

There are 22 new seedlings this year, 1832:
6 Red ones, 4 Yellow, 8 White, 4 Green.
The monstrous Pear, called the Green Moun-The monstrous Pear, called the Green Mountain, has weighed this year, 1832, 201 oz. I sent a tree of this valuable pear to Mr. Prince, of the Linnæan Botanic Garden, near New-York, about 3 years ago. This pear was raised a few years ago in this neighborhood, and is therefore little known, being raised by a cottage gardener, in a village 6 miles from Lancaster.

A singular Twin Cucumber was produced this season; it was perfectly double, being nearly joined together from end to end by the rind; it measured 13 inches long, 61 inches

rind; it measured 13 inches long, 61 inches broad, 174 inches in circumference, and weighed 53 lbs.

With respect to Harrison's mode of Glazing, noticed in the London Horticultural Register on this subject, I refer you to No. 4 of the Horticultural Register, pages 147 and '8; you will there find my opinion on Mr. Harrison's

will there find my opinion on Mr. Harrison's plan of glazing.

The following is Mr. Money's plan of constructing Hot-Houses: A lofty house shows grapes the best, say 7 feet high in front and 14 feet high at back; but a high house is hardest to keep warm. If I intend for grapes, and a sloping bank, a good foundation is a great desideratum, and when practicable I raise the ground in front of the house 4 or 5 feet in a sloping direction for about 30 or 35 feet. I would have loam from a pasture ground, a would have loam from a pasture ground, a fourth part of rotten horse dung, and a fourth part of sharp sand from a river or brook. This well incorporated will do. Plant the vines on the outside, but do not suffer their stems to appear, or frost will injure them.

When grapes are wanting to be kept late, a

dry house is best. I leave the latest sorts un-til February, and the cutting until April, when black grapes and brown leaves have a singular appearance; but the grapes are as good as they are in October, through keeping them dry. The glazing should be done with putty that will not crack. The outside putty should have 1 lb. of white lead to 10 lbs. of putty previous to using, and that will prevent it from cracking. The putty for the laps should be made with sweet or train oil, for linseed dries and shrinks, and soon slips the laps are better puttied, as it strengthens

e glass and causes it to repel a hailstorm. The flues should be 12 inches deep, 7 inches

fine White Muscadine.

For late forcing the Black Escholate, a new seedling, raised by Mr. Money; the Poonah, the Oldakers, St. Peters. To commence forcing about the middle of April, so that the fruit be gins to change color in August, and becomes black in the middle or in the end of Novem-ber, and may be kept till April. For winter forc-ing, see Loudon's Gardeners' Magazine, vol. 1, p. 36. I remain, yours, M. Saul.

MISCELLANY.

[From Count Pecchio's England.] THE BETROTHED.

Miss K—— was a young lady of nineteen, tall, handsome, good mannered, lively, without being too gay or impertinent, of a fair complexion, with a soft and subdued but not a languishing look, and large ringlets of fine dark brown hair; such a one, in short, as would be highly admired by the double file of young men between which the fair Italians have to pass when they go to the theatre of La Scala at Milan pass when they go to the theatre of La Scala at Milan On a visit she was paying to a family of her acquain-tance, at a good hundred miles distance from the city she resided in, she captivated a young man of the fa mily. He asked her in marriage, and obtained the consent of the young lady and her relations; but as the gentleman was not well advanced in his profesthe gentleman was not well advanced in his profession, that of a barrister, it was agreed to defer the ceremony for two years. In the mean time, the betrothed husband came every now and then to visit his affianced wife, was welcomed by all the family with a more than friendly warmth, and looked upon and treated by her friends as the future husband of the young lady. Thus the two betrothed, instead of going to the altar blindfold, had an opportunity (and an envisible patience) to study each other's characan enviable patience) to study each other's charac-ter, to accustom themselves to mutual respect in the presence of others, and to correct whatever blemish they might find they had. To draw still closer the bonds of acquaintance and friendship between the two families, a sister of the husband staid for several months at the house of his intended wife, rather as a relation than a friend; thus, instead of having one day a censorious sister-in-law, the bride was acquiring for herself a friend in her new family, a bridemaid for her nuptials, and, from the gratitude that a friend ly hospitality produces, a supporter and defender or occasion

This young lady, who was known to me before the contract of marriage, did not alter in the least her manner of behaviour towards me. She was often be-

many intermediate ones as are necessary; extend the twine along these at different heights for the vines.

English Gooseberries—Ripening Grapes.

By
M. Saul. To the Editor of the New-York Farmer and American Gardener's Magazine.

Sire,—I have sent you the price list of the eights with the pen, (that is, dwts. and grs.) I took the weights from the gooseberry record of 1632, so that your readers may have the names, prices, and weights, of each sort. The following are the heaviest in each class:

Red Young Wonderful, 27 dwts. 13 grs.; Green Bumper, 30 dwts. 18 grs., this is a seedling, first year of fruiting; White Ostrich, 24 dwts. 20 grs.

There are 22 new seedlings this year, 1832: 6 Red ones, 4 Yellow, 8 White, 4 Green.

The monstrous Pear, called the Green Mount-For late for first part of the twines and the twine at the twine and they will shrivel or turn red and be sour. Plenty of free air is floor, the damp will seize the foot stalk of the berry, and they will shrivel or turn red and be sour. Plenty of free air is hughly necessary, to carry eff the damp. The slides should be in the roof, every two or three foot stalk of the berry, and they will shrivel or turn red and be sour. Plenty of free air is hughly necessary, to carry eff the damp. The slides should be in the roof, every two or three foot stalk of the berry, and they will shrivel or turn red and be sour. Plenty of free air is hughly necessary, to carry eff the damp. The slides should be in the roof, every two or three foot stalk of the beary, and they will shrivel or turn red and be sour. Plenty of free air is hughly necessary, to carry eff the damp. The slides should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roof, every two or three foot should be in the roo that it must have have been conferred upon me by two
of those fairies who for many ages had lived in England, and danced in the woods and on the green
sward. I, (and any body born under a burning sun,)
I, who in Italy or in France, should have conceived
the hope of a culpable love from any single kind
clance that a girl might let fall upon me,—have never glance that a girl might let fall upon me, have never had the slightest unbecoming thought of that young lady, on the word of a man of honor. No! far different is the effect of the confidence placed in the man, and of the consciousness of virtue in the lady. Promises of marriage long before their celebration are here of frequent occurrence in the middle classes: if ever the young man breaks his word, the relations of the young woman bring him before the tribunals, and unless he can justify his change of mind, he is con-demned to pay a fine proportioned to his circum-stances: some of them as high as five and even ten thousand pounds sterling. It is true that this syst may favor the perfidieus snares of a Lovelace; but how few Lovelaces are to be feared, when the satisfaction of a caprice must cost so much time, so many plots, so many falsehoods and dangers! I believe most men would rather make the tour of the world on foot, than go through all the trouble of Richardson's libertine here to obtain a Clarissa by treachery. Besides, he who betrays a young female in England is visited with the public abhorrence to such a degree, that Mr. Wakefield, who endeavored to deceive Miss Turner, was more detested on all hands than if he had assassinated George the Fourth.

Sculpture and Painting.—"A statue may be com-pared to a star, and a painting to a flower. The one is apart, unchanging, independent, and sublime—it is full of a light that burns only for itself; it derives no apparent nourishment from any outward source; and it lifts our thoughts to hold communion with higher it hits our thoughts to hold communion with higher races than man. The other, belonging to our earth, and the child of it, is a portion of that nature to which we ourselves belong, is fed by the atmosphere we breathe, and clad in colours which attract us the more because we irresistibly connect with them the notion of decay. The statue might be fancied the marble crystals of a spirit that will soon take wing to its planet. The mainting is the avanuate and bloom. its planet. The painting is the exquisite and blooming bud, that grows from the native soil of man."— [Arthur Cuningaby.]

Travellers in the East.—The latest accounts from Lieutenant Barnes and Dr. Gerard, state, that after leaving Cabul they had arrived at Khulim, where they were detained by a native Chief, Moor Murad Beg of Kemday, for the purpose of extorting a ran-sum from them. The Khan of Cabul, however interfered and procured the release.

The flues should be 12 inches deep, 7 inches wide inside, and set clear of the ground by two bricks, flat, to receive the joints of the flags or tiles of the bottom of the flues; the bricks are laid flat, not edge-ways, for such a thickness of the flue retains the heat much longer; and I would here remark that my plan of the hot water system, placed also on the flue, is a great advantage, for at some seasons the flue will not draw so well; but by the tubes being in the fire, the heat is sure to be got up by hot water, and when the flues are in a great drawing way, there is a saving in the fire, as one half is only required. This plan I published in No. 458 of the Mechanics' Magazine, which I sent you.

By this plan a great advantage is obtained by being sure of keeping the house dry in the autumn, or the grapes will mould and drop off; and never suppose that grapes are forwarded lovesick damsel would show in latitude 44, she men in the flues are in a graph of the same care and attention which a tender wife or land to take a walk with her as a givent with the same to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a forehand in inviting me to take a walk with her as a for the flues of giving her of giving her. The many deserted fields, as the English taste will have it. Two or three times she of hers. She entered gaily, chatted good humoredly, and soon infolded the object of her visit, generally a politic which it was covered. Pharach said to five hother which it was covered. Pharach said of five hother, as man, and Job, who were viziers at the time, I am, and Job, who were viziers at the time, I am, and Job, who were viziers at the time, I am, and Job, who were viziers a

STIMMARY.

THE AMERICAN LYCEUM-of which one object is the improvement of general education by simplifying its processes, and recommending and preparing good elementary works-is now holding its annual meeting in this city-President Duer, of Columbia College, occupying the chair. Among the proceedings on Monday morning was a resolution requesting President Duer to draw up the outlines of the constitution. al jurisprudence of the United States, and to publish the same in such form as may be best adapted for a text book, for lectures, and a class book, for the use of Academies and Common Schools. We are glad to see this, both because of the importance of the subject and the fitness of the gentleman chosen to il-

President Duer is now in the regular discharge of his duty-delivering Lectures on the Constitutional Jurisprudence of the United States, to the Senior Class in Columbia College, where such instruction is a part-and very useful part-of the under graduate course. Mr. Duer's law education-his practice and experience as one of the Circuit Judges of this State-and his present avocations as President of the College-combine to render the designation of him by the Lyceum, for the preparation of the work in question, very fortunate

"The Cholera," says the Nashville Banner of the 20th ult, "is, we learn, prevailing in the lower country, and the steamboat Tobacco Plant, which arrived here last night, reports eight deaths on board from that disease, while on the Mississippi.

A Ladies Fair has been got up in Boston and was to open yesterday at the Fanuel Hall, to aid the funds of the Institution for the education of the Blind, in a style of splendor exceeding any thing of the kind heretofore attempted in this country; the Boston Editors state that it is confidently believed that from 10,000 to \$12,000 will be raised by this Fair.

MR. AUDUBON, as we learn from the Gazette, "acompanied by his second son, Mr. John Audubon, took his departure from our city yesterday afternoon in the steamboat Benjamin Franklin, on his long contemplated excursion to the Coast of Labrador. His object is to study the habits of the numerous water us en passant to and from those almost uninhabitable regions, where they retire during the breeding season. This is a field which natural-ists have but partially explored, and none have con tributed so largely as Mr. A. to this interesting subject, as will be proved when his charming biography of birds shall be completed."

It may be of service to Mr. Audubon, and accepta ble to any person desiring to subscribe (in his absert to his great work to say, that letters addressed to Audubon, to the care of Mr. N. Berthoud of this c Audubon, to the care of Mr. N. Berthoud of this city will be duly attended to.

Capt. Back and his party, augmented by four soldiers of the Royal Artillery, who asked and obtained permission to accompany the expedition, left Montreal on Thursday of last week, for La Chine, where they embarked to the number of thirty, in two canoes.

[From the Alexandria Phenix.]
An incident of a most painful nature occurred on board the steamboat Cygnet, as she stopped here on her way down, yesterday. An assault was made upher way down, yesterday. An assault was made up-on the President of the United States by Mr. Ran-dolph, late of the Navy. At the first blow, we un-derstand, almost a hundred arms fell upon the assailant, and he was with difficulty rescued and carried on shore. We have never known more excitement nor more feeling to be manifested by all our citizens.— We are induced to mention this matter, which ought indeed never to be published, only because we know that reports of it will be circulated throughout the country and printed elsewhere. It was an affair of a moment; but it is said, that, from the feeling pro-duced, it is wonderful that the assailant escaped with his life.

So great was the public indignation at this outrage, that we believe almost any measure would have been edopted to express it. The President was naturally highly excited and exasperated. He departed a-midst the cheers and good wishes of the great crowd

which had assembled.

In the confusion of the moment, no attempt was made to arrest Mr. Randolph on the instant, but the Court being in session, he was immediately presented by the Grand Jury, and a bench warrant forthwith issued for his apprehension.

Lane, who will go into the Department of State."

[From the National Gazette.]
Messrs. Carey, Lea and Blanchard have put to
ess a volume enlitled—Memoranda of a Residence press a volume enlitled—Memoranda of a Residence at the Court of London, by Richard Rush, Envoy Extraordinary and Minister Plenipotentiary of the United States of America, from 1817 to 1825. We have seen, in the hands of the publishers, the table of contents; and judging by that, and the very favorable opportunities and abundant qualifications of Mr. Rush, we expect much instruction and gratification in the reverse of his week. It is likely to appear in the perusal of his work. It is likely to appear about a month hence.

Appointments by the President.

Maximo de Aguirre, of Bilboa, to be Consul of the United States at Bilboa, in the place of Francis Xavier de Ealo, resigned.

Joshua Dodge, of Massachusetts, to be Consul of Charles

the United States at Bremen.

HEAD QUARTERS OF THE ARMY Adj. Gen. Office, Washington, April 18. \ The Secretary of War has given the following ames to the forts to be constructed and situated on the points and places here below mentioned:

To the work on Grand Terre, Louisiana Livingston.

To the work on Mobile Point, Alabama Morgan.

To the work on St. Rosa Island, Florida-

To the work on Cockspur Island, Florida-Fort Pulaski.

To the new work now constructing in the harbor of Charleston, S. C.—Fort Sumter.

To the work on Oak Island, North Carolina-

To the work on the Pea Patch, Delaware River

Fort Delaware. To the work on Throg's Neck, New York-

huvler. o the work on St. George's Island, Boston Har -Fort Warren.

By order of Major General MACOMB,

R. Jones, Adj. Gen.

The Sea Serpent .- Capt. Joshua Knight, of the brig Speed, who reciently arrived at this Port from Matanzas, informs us that when off Cape Cod, about twenty-five miles distant, he fell in with his snakish majesty, and had a fair view of him for above half an hour. He was about six hundred feet distance; the weather was calm, and he lay sluggish upon the water, as much at his case as a lazy gormandizer after dinner. Sometimes he appeared entirely motionless, lying like a log a hundred feet in length upon the water. Occasionally he would raise his head, about as large as a barrel, four or five feet above the water, take a calm look abroad and then lay down again as though he were napping. Just back of his head there appeared to be a bunch more than twice as large as his head, and near his tail another bunch somewhat smaller. Capt. Knight is confident he saw a hundred feet in length of the animal out of wa-ter at once. He viewed him with a spy glass, and was so near that he could see his eyes distinctly -[Portland Courrier.]

It is certain, says the National Gazette, that Mr. Stevenson, of Virginia, has been nominated Minister at the Court of London.

We learn from Washington that President Jackson will leave that city on the 1st of June, on his tour to the East, and will proceed as far as Portland. He intends to be in Washington again previous to the 4th of July, not wishing to mingle in the bustle and pa-rade which his presence would occasion on that day in one of our large cities.—[Jour. Com.]

CINCINNATI, APRIL 30 .- Another Steamboat Lost The steamboat Guyandotte, while accending the Ohio last evening, struck a snag, a few miles above this city, and sunk almost immediately. No lives lost. She was the U.S. mail packet from this place to Guyandotte. We have heard no further particulars.

Another splendid packet ship, of 650 tons, intended for the old line of Liverpool packets, was launched yesterday morning from the yard of Messrs. Brown and Bell. She is called the "Europe," and is to take the place of the Canada. The latter ship is to be sold this day .- [Jour. Com.]

[From the Raleigh Constitutionalist.]
"A Vindication of North Carolina from the aspersions of Mr. Jefferson, as contained in the fourth volume of his works, with other matters connected with

"It is understood as certain," says the National the history of North Carolina, from 1771 to 1776," Gazette of yesterday, "that William J. Duane, Esq., of this city, has been appointed Secretary of the Treasury of the United States, to succeed Mr. Mc... encouragement for more reasons than one. Apart from the mere fact, that we desire the success of any literary man from our adopted State, we think this portion of her history is little known. Few, very few, know that North Carolina was the first to give motion to the ball of the revolution, and still fewer are disposed to admit the fact when established by historical evidence. We hope the work about to be issued will contain a full and complete "vindication." issued will contain a full and complete "vindication." This State has too long permitted herself to be deprived of the honor which is justly her due. By men who are acquainted with the matter, it is believed that when Mr. Jefferson penned the declaration of independence of '76, he had that of North Carolina, of 75, on his table. If we are not much mistaken, the journals of Congress announcing the arrival of the North Carolina declaration have been found, and we have little doubt, that the colonial office of Great Britain contains documents which will will place the guestion beyond the reach of controversy. question beyond the reach of controversy.

NAVY

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The National Intelligencer, of yesterday observes,
"It is not true that Commodore Rodgers has been
arraigned before a Court, or had any charge preferred against him whatever. There is no foundation for the story."

INGENUITY OF THE BLIND.—Wishing to keep his communications from absent friends without the interposition of a secretary, Huber had a sort of printing-press made for his use. In a series of boxes, successively numbered, were placed small types, and these he arranged in his hand. When the lines were composed, a sheet, blackened with a peculiar ink, was laid upon them, and on that sheet again another of white paper. With a press, which he controlled with his feet, he was able to take an impression on a piece of letter paper, which he then sealed and despatched. Such are the contrivances to which the instinctive love of independence will give rise. In taking exercise, Huber was accustomed to take hold of threads, which were strewn through all the walks about his residence. In following them by his hand, he knew his way, and small knots sometimes met his grasp, which, from some known peculiarity, in their form or substance, afforded him some well-understood information as to the direction he was taking.

United States Senate.—The following is the Senate board for the twenty-third Congress. The figures opposite the names mark the periods when the respective terms of the members will expire.—[U. S.

ľ	elegraph.l		
7	elegraph.] MAINE	Peleg Sprague,	1835
	CHEM AND THE COURT	Ether Shepley.†	1839
	NEW HAMPSHIRE	Samuel Bell,	1835
		Isaac Hill.	1837
	MASSACHUSETTS		1835
		Daniel Webster,*	1839
	RHODE ISLAND	Nehemiah Knight.	1835
	anopa mana	Asher Robnins,*	1839
	CONNECTICUT	G. Tomlinson.	1837
	Collingoricori	N. Smith. *	1839
	VERMONT	Samuel Prentiss.	1837
		7. Swift t	1839
	NEW YORK	8 Wright t (a)	1837
	TIEM TOME	N. P. Talmadge t	1839
	NEW JERSEY	T. Frelinghoveen.	1835
	MEN SERESTINA	S. L. Southard,	1839
	PENNSYLVANIA	William Wilking	1837
	I BRIBIL VANIA	One vacancy	TOUT.
	DELAWARE	John M. Clayton.	1837
	Dilliam	Arnold Naudain.*	1839
	MARYLAND	Ezekiel F. Chambers.	1837
	Miller British	I Kent t	1839
	VIRGINIA	William C. Rives t (A)	1835
	· indirection	John Tyler,*	1839
	NORTH-CAROLINA	Redford Brown	1835
		Wiley D. Mangum,	1837
	SOUTH CAROLINA	John C. Calhoun, t (e)	1835
	DOUTH CHIMOBILITY	Stephen D. Mitter	1837
	GEORGIA	George M. Troop.	1835
	the state of the s	John Forevth.	1837
	KENTUCKY	George M. Ribb.	1835
	HIM TOOK I WAS A	Henry Clay.	1837
	TENNESSEE	Hugh L. White.	1837
		One vacancy.	
	OHIOLOUISIANA	Thomas Ewing.	1837
		T. Morris.	1839
	LOUISIANA	G. A. Waggaman.	1837
	INDIANA	J. S. Johnson.	1835
	INDIANA	W. Hendricks.	1837
	MISSISSIPPI	J. Tipton,*	1839
	MISSISSIPPI	G. Poindexter.	1835
	ILLINOIS	J. Black.†	1839
	ILLINOIS	J. M. Robinson,	1837
	200 200 21	E. K. Kane,	1835
	ALABAMA	W. R. King.	1835
	ALABAMA	G. Moore,	1837
	MISSOURI	A. Bucknor,	1837
	HIM CHINGBERG COM	T. H. Benton,*	1839

There will be a decided majority of anti-Jackson nembers, including the nullifiers.

*Ro-elected. † New members.
(a) In place of Mr. Marcy, resigned. (b) In place of Mr. Tazewell, resigned. (c) In place of Gen. Mayne, resigned.

NAVY REGISTER .- Some of the most important hanges in the Navy Register, as ascertained at the Department during the month of April, 1833. VESSELS BELONGING TO EACH FOREIGN STATION.

Mediterranean.—Frigates—United States, Brandy.
ine, and Constellation.

-John Adams.

Sloop—John Adams.

West Indies.—Sloops—Vandalia, and St. Louis.
Schooners—Grampus, Shark, and Porpoise.

Coast of Brazil.—Sloops—Warren, Lexington,

-Enterprize and Boxer.

Schooners-Enterprize and Boxer.

Pacific.-Frigate Potomac, Sloop Falmouth, and

ner Dolphin.

Schooner Dolphin.

Notices.—Frigate United States, Captain Nicolson, arrived at Mahon the 27th Dec. 1832, from Tripoli and Tunis—having visited, since leaving Naples on the 17th October, Messina, Syracuse, and Malta, besides the two places above named. Still at Mahon the 18th February.

Frigate Brandywine, Capt. Renshaw, arrived at Mahon the 26th Dec. from Tripoli and Malta—arrived at Gibraltar 7th March—12 days from Mahon—left there the 21st for Tangiers, Lisbon and Madeira, and thence to proceed to the United States.

Fregate Constellation, Capt. Read, was at Mahon all Dec.—still there the 18th February.

all Dec.—still there the 18th February.

Sloop John Adams, Capt. Voorhees, arrived at
Mahon the 26th December, from Tripoli and Tunis arrived at Marseilles about the 1st, and there the 10th March from Mahon.

andalia, Capt. Budd, arrived at Pensac Sloop Vandalia, Capt. Budd, arrived at the 13th March—there the 19th of April.

Sloop St. Louis, Capt. Newton, sailed from Gonaives the 6th, and arrived at Port-au-Prince the 9th March—sailed thence the 13th and reached St. Jago -left there the 23d and arrived at Pensacola the 2d April-all well-there the 19th.

Schr. Porpoise, Lt. Comd'g McIntosch, arrived at Pensacola the 13th March—still there the 19th of

April.

Schr. Shark, Lieut. Comd'g. Boerum, from St. Thomas, was at St. Croix 3d March—arrived at St. Pierre's. (Mart.) the 26th and sailed for Margaretta. A vessel appeared in the offing of Pensacola the 19th

A vessel appeared in the olding of rensacoia the 19th April, supposed to be the Shark.

Schr. Grampus, Lieut. Commanding Smoot, was spoken 24th March, in lat. 34 deg. long. 77. Arrived at Charleston, S. C. the 29th and sailed thence for

the West Indies the 6th of April.

Sloop Warren, Capt. Cooper, at Rio the 21st Feb-all well-still there the 6th March.

Sloop Lexington, Capt. McKeever, at Buenos Ayres 1st February—for Montevideo next day—at the latter place the 14th and arrived at Rio the 27th—still there the 6th March, bearing the broad pendant of Com. Woolsey.

Schr. Fnterprize, Lt. Commanding Downing, arrived at Rio the 27th Feb. from the River Plate—

there the 6th March.

Sloop Peacock, Captain Geisinger, was at Lintin (China) from the 1st to the 26th December last—to sail next day for Turon Bay, (Cochin China), and thence to proceed to Siam.

Schr. Boxer, Lieut. Commanding Shields, bound to the East Indies, was spoken 5th Dec., 1832, by whale ship, lat. 37 deg. 54 sec. south, long. 2 deg. 25 sec. east—all well—expected to arrive at Be coolen (West Coast of Sumatra) in about 60 days.

Frigate Potomac, Commodore Downes, arrived at Callao 15th December, 1832—13 days from Valpa-

still there the 6th January.

Sloop Falmouth, Captain Gregory, arrived at Callaothe 1st December, 1832—there 22d—and at Puna, (Guayaquil) the 16th January, to sail immediately for Valparaiso.

Schr. Dolphin, Lt. Comd'g Long, was still at Cal-lao the 22d Dec. 1832—at Guyaquil 10th Jan. and at Panama 5th Feb.—sailed thence the 16th for Lima and Valparaiso.

and Valparaiso.

Sloop Natchez, Captain Zantzinger, sailed from Charleston, S. C., the 29th March, and arrived at Norfolk the 5th of April. Now on the eve of sailing for her destination on the Coast of Brazil.

Sloop Fairfield, Capt. McCauley, left Norfolk, via New York for her destination in the Pacific, on the

21st of April and reached New York the 27th.

ooner Experiment, Lt. Commanding Mervine sailed from Charleston, S. C., the 18th, and arrived at Norfolk the 24th of April—still at Norfolk. Norfolk the 24th of April-

at Norfolk the 24th of April—still at Norfolk.

The Mails can be sent to the different squadrons by the following store ships, viz.:

Pantheon, from Alexandria, D. C., to sail probably by the 15th instant for Mahon.

Serene from Baltimore, for Rio and Valparaiso, expected to sail from the 15th to the 25th instant.

Nasy Department, May 4, 1833.

[From the Washington Globe.]
The act of the 13th of July, 1832, having made it the duty of the Secretary of the Treasury to cause the several instalments, with the interest thereor payable to the United States in virtue of the Conver st thereon tion with France, to be received from the French Gevernment and transferred to the United States in such manner as he may deem best, and the nett proceeds thereof paid into the Treasury, it was deter-mined, after having obtained all the information ne-cessary to a decision, to accomplish these objects by drawing on the French Government, and disposing of the bill on the best terms that could be obtain ed for cash. This course was deemed most advan tageous to the interests of the claimants, as it would save the expense of commission which would other-wise have to be paid out of the fund, and as it would be free from all the risks of intermediate agencies For this purpose offers were invited and many made. The highest price for the bill however was offered by the Bank of the United States, being \$1 for 5f. 37 1.2 centimes. A bill was accordingly drawn by the Secretary of the Treasury upon the French Minister of Finance in favour of the Bank of the U. States, and the proceeds, being \$903,565 89, were at the same time placed to the credit of the Treasurer on the books of the Bank. By the Convention, the amount of the instalment was payable at Paris on the 2d of February last; and as the bill was not drawn until the 7th of February, after the instalment was due, it was made payable at sight.

It is understood, however, that when the bill was received at Paris, no appropriation had been made by the Chambers for the payment of the instalment, and it is believed to be owing altogether to that circum. stance that the bill was not paid on presentation. The French Government, it is not doubted, will promptly admit the right of the United States to be indemnified for any loss sustained by the non-payment.

Though notice has been given to the Treasury by the Bank that the bill has been protested for non-payment, it is not understood that it has yet been return-

ed to the United States.

MECHANICAL INGENUITY is certainly an attribute of the American man. We have just seen a beautiful exemplification of it in a pin-making machine, invented by Dr. John I. Howe, of this city, who sails with it in a day or two for England, there to procure a patent for it.

The model machine is small, beautifully made, and worked by hand. We saw it in operation, and from two sorts of wire with which it was fed-one stou for the pin, the other fine, which is twisted into the head-we saw pins complete poured forth at the rate of 40, and with a capability of producing 60, in a minute. The pins are perfect in everything but the coloring, which, as in all cases of pin-making, is imparted by a chemical wash afterwards.

The machines now used for pin-making, only make the pin, the head being afterwards put on by hand, to each separately. Here the head is more firmly, uniformly, and smoothly, made and fastened on by mechanism. We cannot doubt that this all but reasoning nachine will well reward its ingenious inventor.

The ship Canada, just taken out of the old line of Liverpool Packets, and whose place is supplied by the new ship Europe, sold at auction yesterday for \$20,000. We understand she was bought by Fish, Grinnell & Co. for the London Line.

[From the Ebensburgh (Pa.) Spy.]

Fire in the Woods.—On Tuesday last the fire broke out in many places in this county, and spread through the woods with great violence and rapidity. The leaves and brush being very dry, and the wind blowing a strong gale, every attempt to stop the progress of the flames was ineffectual. The farmers have suffered much in the destruction of their fences

and the consequent exposure of their crops.

The Bridge on the turnpike, over the first branch of the Canemaugh west of Munster, has been totally

destroyed.

We have heard of the loss of but one other building, the barn of Ezekiel Davis, a few miles north of this place; but many houses and barns were much exposed, and only perserved by the great exertions of the owners and neighbors. We saw several buildings on fire, and have heard of many more, but the flames were promptly extinguished.

We, together with most of the citizens of this

place, were on active duty the greater part of Tues-day, in assisting the neighboring farmers in the pre-which, if not liberal, is less illiberal than the Aposto-

servation of their property. This will account for the late appearance of our paper. Died, on the 19th inst., at Palatine in the county of Montgomery, Major John Frey, in the 93d year

of Montgomery, Major John Frey, in the 93d year of his age.

Major Frey was one of the few surviving patriots to whom we are indebted for our national independence From the commencement to the close of our revolutionary struggle, he was an active and intrepid supporter of the American cause. As a member of the committee of correspondence for Tryon county, and as a soldier in the field, he rendered essential services to his country. He was severely wounded at the battle of Oriskany, where he was taken a prisoner by the Indians, carried into Canada, and ultimately to Halifax. During the period of his imprisonment, he suffered intensely from want of proper attention to his wounds, until he was at length rescued from the jaws of death by the skill and humanity of an eminent British surgeon, into whose hands it was his good fortune at last to fall. Soon after the revolution, he was elected a member of the senate of this lution, he was elected a member of the senate of this state. He was a benevolent, upright and honorable man, who injuyed the respect of all who knew him while living, and who will long be held in honored remembrance now that he is no more.—[Alb. Argus.]

Bank Robbery .- The Narraganset Bank, in Wick-28th ult, and robbed of \$450 in specie, \$352 in bills of other banks, principally of the North Kingston Bank, \$3231 of the Narriganset Bank (new plate) \$1638 of the old plate, and \$8414 in bills unexecuted, new plate. A reward of \$500 is offered for the recovery of the property, and detection of the thieves.

FOREIGN INTELLIGENCE.

From Mexico.—We have received letters from Mexico, by the way of New Orleans, to the first day of April, with the address of President Pedraza to the Congress on resigning his office, made on the 29th of March.

The republic continued in a peaceful state; and we find confidence expressed by some of our correspondents in the prospects of the country. Governor Zavala, whose election as chief magistrate of the State of Mexico we have mentioned, has also received the environment of the country. ed the unanimous votes of his native state, Yucatan, as representative in the general congress, and has been appointed by Mr. Pedraza, Minister to France. -[Daily Advertiser.]

[From the Baltimore American.]

LATEST FROM BUENOS AYRES.—The fast sailing brig Mentor, Paterson, arrived here yesterday from Buenos Ayres, whence she sailed on the 17th March. The editors of the American are indebted to the attention of Captain Peterson, for a file of the British Packet to the 16th March, inclusive. From it they learn that considerable excitement prevailed at enos Ayres un account of the incursions of the Indians of the South into the interior provinces, particularly San Louis and Cordova, where they had committed dreadful devastations. This circumcommitted dreadful devastations. This circumstance had paralyzed the trade, and stopped the communication with the interior. Several of the provinces had united in an expedition against the invaders, and general Quiroga had accepted the command

The packet of the 9th contains a paragraph stating that Captain Paddock, of the American whale ship Catherine, who had killed three persons and wounded several others at Valparaiso, was shot at that place on the 10th January last. On his way to the place of execution he exhibited unequivocal marks of insanity.

LATER FROM EUROPE .- The South America packet ship from Liverpool, brings us London papers to and of the 1st April and Liverpool of the 2d. The intelligence is eight or nine days later than before received.

The report via Havre, published in this paper on the 25th ult., of the continued advance of Ibrahim Pacha upon Constantinople is not confirmed, though that of the occupation of Smyrna on or about the 20th February by a detachment of his troops, seems to be considered as well founded.

The Dutch and Belgian question had made no apparent advance towards a solution; and owing to the mission of M. Dedel, the French and English govern ments were holding back from any coercive measure

In Spain, the ascendancy of the Queen's party,

licals, had gained strength by the banishment of Dor Carlos. He, together with the sister of Don Miguel, the Duchess of Beira, left Madrid for Lisbon on the 16th April. On the other hand, the sending Count de Puon Rostro to Pampeluna as Governor, is looked upon as a sort of honorable banishment for this prominent Liberal. The Queen and Zea Bermudez, are aiming at what in France is called the Juste

In Portugal, the fraternal discord was still unset tled. The partial success of the Pedroites in repuls. ing an attack on their advanced works at Oporto, will be more than compensated, if, as he threatens, Admiral Sartorius should blockade Pedro in Oporto with his own fleet. The Admiral, it seems, does not understand fighting without pay, and for the mere honor of serving Donna Maria's Lieutenant.

From France, the latest accounts received in Lon don anticipated a change in the ministry, and the formation of a new one under M. Dupin. The rumor of such a change had affected the French funds unfavorably.

In England, the House of Commons by a decisive majority had passed the Irish Enforcing bill, and were occupying themselves with questions of the greatest moment in their civil polity. A motion by Mr. Robinson to substitute a qualified property tax, for the various assessed taxes, which are most onerous, was debated with a manifest leaning to the adoption of some such sure and equalizing expedient; though, as it was opposed by ministers, it was lost-221 voting against, 155 in favor of it.

The East India monopoly is certainly to be cut up; though restrictions as to the residence in India will still be maintained. But our limits to-day forbid further extracts.

GREAT BRITAIN.

LONDON, MARCH 27.—The opinion of the proprietors of the East India Company, expressed in a manner least open to the suspicion of insincerity, (by an increased indisposition on their part to sell their stock which has been accompanied too, by an increased desire on the part of others to buy it), is conclusive, we presume, as to the success of the arrangement of India question proposed by the Ministers. stock rose yesterday from 208 to 222 or 223 per cent.

LONDON, MARCH 28-The following are the conditions on which the government has proposed to the Directors of the East India Company that the tes trade shall be thrown open: 1st, The trade in ten is not to be thrown open for the consumption of Great Britan until the year of 1836, because it is alleged that either in England, in China, or on the way home, there will be two years' stock of tea after Aprtl 1834 when the monopoly by the charter act expires : 2d. ort to be allowed to carry on the external tea trade that has not wet docks and government ware ouses within its walls; 3d, A minimum of the tonnage of the ships carrying on the trade to be perscri-bed, in order to guard against smuggling. Deputations understood to be on their way, from all the outports, to remonstrate against them .- [Times.]

East India Company—Opening of the China Trade.

A meeting of the East India Proprietors was held in London, on the 25th March, for the purpose of receiving from the Directors, communications relative correspondence and negociations which have taken place between the Government and the East India Company, on the subject of the renewal of their Charter. The attendance was very numerous, and some of the documents laid before them were of the very highest importance; involving, as they do, the commercial concerns of the British empire, and the interests of so many millions of her subjects. From these proceedings we now learn the nature of the terms which the Government has proposed for settling the great questions relative to the trade and political administration of India. After various interviews between Earl Grey and Mr. C. Grant, a plan has been agreed to, of which the following are stated to be the principal heads. At the same time it was stated to the Proprietors, that although the arrangements, on the whole, appeared to be eligible, the subject was left open to discussion, and Government would be ready to weigh the merits of any other scheme that might be suggested:—

1. The China monopoly to cease. the interests of so many millions of her subjects.

3. The Company's assets, commercial and territorial, to be assigned to the crown, on behalf of the territorial Government of India.

4. An Annuity of £630,000 to be granted to the Company, payable in England half-yearly, to be charged on the territorial revenue of England, not to be redeemable before the 25th of April—, and then to be redeemable at the option of Parliament on the payment of 100l. for every 5l.; 5s of annuity. 5. The revenue of India to be chargeable with all

the expenses incurred on account of that country either at home or abroad.

The new annuitants to retain their character of a Joint stock Company, the qualification and right of voting to remain as at present.
7. The number of the Court of Directors to be one

fourth, going out in rotation every year.

8. The patronage, civil and military, to remain

with the Directors as at present.

The civil servants of the Company to be educat ed at Haileybury. The number of students always to be greater than the probable number of vacancies. nain in the College for-10. The Directors to fill up the vacancies each

ear. Each Director to appoint in his turn.

11. The 47th section of the 53d of Geo. III. to re

main in force, but to be made applicable to removals

as well as to appointments.

12. Every British subject to have the right of going to and settling at, either of the Presidencies without license; but the right of going into, trading, or settling in the interior, to be subject to such restraints and regulations as the local Government might require

13. The Board of Control to have right of altering despatches: and, on the refusal of the Court of Directors to send them out, to have the power of sending out such despatches themselves.

14. The appointment of Governors to remain, as at ent, with the King. The veto still to continue

with the Court of Directors.

Before breaking up, the meeting agreed that the consideration of the question should be adjourned to the 14th of April.

HOLLAND AND BELGIUM.

Rumour speaks of the rejection by the British and French Plenipotentiaries of the first propositions of M. Dedel—viz., the formation of a provisional treaty, on the following grounds:—The removal of the embargo on Dutch ships, and the cessation of the block. ade of the Dutch coast; the restoration of the Dutch prisoners now in France; the declaration that no evacnation of territory was to take place on either side, and that Belgium was to pay no portion of the debt until a final treaty be agreed upon; the Scheldt to be placed on the footing of 1830, and regarded as free as any portion of the sea; the navigation of the Meuse to b established provisionally by the basis of the tariff of Mentz; that the neutrality of Belgium was not to be acknowledged by Holland; and, finally, that an armis tice was to be fixed to the 1st of August next.

TRIESTE, MARCH 18 .- The last accounts from Corfu confirm the news that all parties in Greece have made their submission, and that universal tranquility Trade is resuming its activity. ships are already constructing on the south side of the Morea, as well as in the dock yards of Galixidi, in the Bay of Cerinth.

LONDON, MARCH 25 .- The following letter has een received at Lloyd,s this morning, dated 20th behruary—"On the evening of the 18th instant our February—" On the evening of the 18th instant our town surrendered to Ibrahim Pacha, who merely sent an officer to ask our Governor to give up the town, which was immediately done. All the neighboring towns are under the government of Ibrahim Pacha. Sundry inland duties have been taken off, and the people appear to be in favor of the new Government. It is said that in a few days we shall have an army of 1000 men here. The town remains tranquil, and property perfectly safe. Not the least alarm exists; all payments due this post have been suspended by arrangement."

London, April 1 .- (Express from Paris.) We have received the Paris papers of March 30th, and Messager des Chambers, Nouvelliste, and Gazette de France of yesterday. Their contents are interest-ing. No authentic accounts had been received in Paris from Constantinople of a later date than 25th February; a circumstance which is represented to ed uneasiness even to the government. From Smyrna letters are said to have reached the French capital, stating the particulars of the occupation of that city by the troops of Ibrahim, amounting of higher schools and academies," an elementary to about 9,000 men. On the other hand, we learn discourse, easily understood and therefore easily to

2. The East India Company to retain its political from Belgrade that the Sultan, distrusting alike th assurances of France and Ibrahim's asserted love of peace, had ordered the armament of the general levy of the subjects of the Porte. The non-arrival of de. of the subjects of the Forte. The non-arrival of uespatches to the French Government from Admiral Roussin was deemed in Paris of serious import; for the impression was general that, had the Russian fleet actually left the Bosphorus, that important fact would have been announced to his Government by the French Ambassador, and by Government to the public.

NEW-YORK AMERICAN.

MAY 4, 6, 7, 8, 9, 10-1833.

LITERARY NOTICES.

WILLIAMS'S NEW-YORK ANNUAL REGISTER, FOR 1833. New-York, PETER HILL.—This is the fourth year of the existence of this certainly valuable and accurate statistical work. It is, too, from the language of the preliminary notice, the year that is to determine whether or not a publication so expensive and laborious shall be continued. Hitherto, the demand for the book has not compensated the cost of publication. Yet we are sure, that at the same price, \$1.50, it would be difficult to compress within a smaller compass, or with more discriminating selection, so great a mass of valuable, and to most classes of persons, indispensable, information. An almanac, all that relates to the statistics of this State, its population, resources, institutions of education, of business, of charity, its public funds, its roads and canals, its schools and colleges, its judicial officers, its militia, clergy, and in short, all the topics usually comprised under the head of statistics; a national register, comprising information respecting Congress, the various Executive departments, foreign functionaries, the army and the navy, a correct and alphabetical tariff;-these are but a portion of the contents of this volume. We recommend it, therefore, cordially, to general patronage.

MECHANIC'S MAGAZINE, Nos. III. and IV.: New York, D. K. MINOR.—If this publication should fail of support, destined as it is to the amusement and instruction of so large and influential a class in all our American communities, as that of the mechanicsand edited with such intelligence and judgement, by one who was himself brought up a mechanic-it would argue unfavorably to the progress of sound and useful knowledge. From the spirit however with which the undertaking is continued, and from the greater efforts manifested in each successive number to render the work more diversified as well as more perfect, we infer that the patronage it meets with is encouraging. We find in No. IV. a sketch of Henry Brougham-to whom, more than any man living, the cause of popular education is indebted-with a fac simile of his hand writing. The engravings illustrating the papers are numerous and well executed. In No. IV. is commenced the republication of Babbage's admirable book on the economy of manufactures and on machinery, which it is proposed to republish entire in successive numbers, and with such an arrangement as to place and paging, that in binding up the magazine, this part may be detached and bound up as a separate volume.

When it is considered that each number of this Magazine is furnished separately for 37 1.2 cents. and that—cheaper still—\$3 paid in advance, secures the twelve numbers for the year—the work cannot fail to strike every one as entitled not less by its cheapness than its usefulness, to liberal support

BOTANY FOR BEGINNERS-an introduction to Mrs. Lincoln's lectures on Botany-by Mrs. A. H. L. PHELPS. Hartford, F. J. HUNTINGTON .another name we have the clever author of the "familiar lectures on botany," now presenting for "the use of common schools, and the younger pupils of higher schools and academies," an elemen

It is abundantly illustrated with engravings, and appears to us to present its subjects with simplicity and distinctness.

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LECTURES ON DRAMATIC ART AND LITERATUREcoad Notice.-This is no common work; and while we are much surprized that it has not before been republished in this country, we shall have no hesitation in recurring more than once to the edition before us. In the present instance, we would make a few observations in passing, upon one department of his labors, which Schlegel has managed with great comprehensiveness and ability. It is his view of the two great periods of the English Theatre, the Elizabethan, or Shakspearian age of the drama, and the Charles II. era, the time of the Witcherlys, Farquhars, and Congreves. The German critic dwells with enthusiasm upon the gigantic strides which were made during the first, in an art almost previously unknown; and he regards " these time-bettering days," as Shakspeare called those in which he lived, as one of those periods when the human mind makes a spring in its advancement, as if it had been for ages gathering strength for the effort. Still, we think, that with the exception of the master spirit of the age, of whom he is, if not the ablest, certainly the most eloquent and delightful commentator that ever wrote, Schlegel hardly does full justice to the admirable dramatic may be so applied) is all that, with their felicitous talent of that period. Beaumont and Fletcher, indeed, especially the last, are well treated at his ing, in a literary point of view, in their works. But hands; but Massinger, in spite of his eloquence and force, his natural delineation of character, and poetical diction, is dismissed in a brief paragraph; while the elegance and elevation of Ford, his easy versifi- they contrived with so much ingenuity, as if the chief cation and harmonious language, and his deep and object of them were to outrage the commonest ideas natural pathos, have not even procured him the mention of his name. This omission is the more re- version of the critic. markable, as Decker, Marston, Webster, and others of similar note, are mentioned, though few of them drama, however, that the manly mind of Schlegel in complimentary terms. The comic talent of Chap. gives fullest vent to the emotions excited by some of man, the translator of Homer, and the power of Heyward, the author of Woman Killed with Kindness, in He traces briefly but vividly the effect of a grossly domestic tragedy are both commended; but the other immoral court upon the stage, when the theatres, cotemporaries of Shakspeare, whose names we have after being closed for a period of thirteen years, were just mentioned together, are both summarily, and thrown open at the accession of the profligate Charles perhaps justly classed in a fraternity of imitators; II. to the throne of his unhappy father. The influence while Lilly and Marlowe, his two most noted pre- of that worthless and contemptible Prince's habits decessors, are brought into most dangerous juxta upon a whole nation, can hardly, even at this distance position, for the reputation of the latter. The line of time, be contemplated with patience. The age of is distinctly drawn, however, between the author of Louis the Fourteenth was no where imitated with Euphue, (from which we presume Scott's Sir Piercie greater depravity than at his abandoned court .-Shafton, like most of the courtiers of his time, bor- "The prevailing gallantry," says Schlegel, "at the rowed the tone of his stilted phrases) and the pathe- court of France was not without reserve and without tic writer of Edward II. Lilly is called by Schlegel a tenderness of feeling; they sinned, if I may so "a learned witling, but in no respect a poet;" and, speak, with some degree of dignity; and no man though he professes himself unable to conceive how ventured to attack what was honorable, though his Ben Jonson could have used the expression, "Mar. own actions might not exactly coincide with it. The lowe's mighty line," yet the flowing verse, the artless English played a part which was altogether unnatumanner, the truth and simplicity that probably awa. ral to them. They gave themselves heavily up to kened "Rare Ben's" admiration, are far from thrown levity; they everywhere confounded the coarsest away upon one whose sensibility to poetic beauty is licentiousness with free mental vivacity, and did not so delicate as Schlegel's. As for Jonson himself, it perceive that the sort of grace which is still compati can hardly be expected that so stout a stickler for the rights of Shakspeare as our commentator, will let it throws off." The coloring of this picture, though the budding laurel from his brow, escape without charged to any one familiar with the memoirs of that of a forest, leads away the eye with images, whose grace hardly disappears as they fade into indistinct.

Serman in his astonishment that the audacious ribby Amédeé de Beauplan; The Young Cavalier, compacts hardly disappears as they fade into indistinct.

Serman in his astonishment that the audacious ribby Amédeé de Beauplan; The Young Cavalier, composed by C. E. Horn, and sung by Miss Hughes, and decency of those writers could have been counted.

Mine alone, a tyrolian air, by C. de Beriot.

le taught, of this attractive branch of natural science. lose its power. Schlegel, like every one else, we pre-It is abundantly illustrated with engravings, and ap-sume, thinks far better of Jonson's comic than of his rate degree of refinement. We cannot help uniting tragic powers. He observes that his characteriza- with Schlegel in the unmeasured contempt to be action, however, is better suited to serious satire than mere effusion of gayety, and which Schlegel regards as so much the more philosophic, as it is not the vegeneral irony.

Of Beaumont and Fletcher, our critic speaks in warmer terms of praise. Without attempting to distinguish the hand of either in the works they avowtheir contemporaries, which attributes boldness of imagination to Fletcher, and maturity of judgment to his friend, making the former the inventive genius, and the latter the directing and moderating critic, he does justice to the distinguished talents that were united in both. He points out the want of a profound seriousness of mind in their writings as the chief defect; and he thinks that the presence of that sagacity in art which observes a due medium in every thing, and keeps constantly in view the modus in rebus denique fines of fancy and passion, (if the Latin term ease, and fecundity and flexibility of mind, is wantthe immodest conceptions, and licentious language of these brother poets, meets with no mercy at the hands of Schlegel; and those abominable plots which of decency, meets with the justly indignant animad-

It is in treating of the second period of the English the most vaunted productions of the English theatre. e who tried by the most unworthy means to pluck it be strongly drawn, can hardly seem too heavily undergoing the most rigid critical discipline. His day, or who allows the comedies of the time to be a fair success in that species of composition where the understanding comes in for the greatest share, and ima. complete collection of these plays (Bell's British gination and feeling are merely subordinate, is fully Theatre) is at this moment before us; and turn allowed; but his pieces are pronounced deficient in ing over the pages that have so entertainingly besoul-in that nameless something, which always con. guiled many an hour, and with all the fondness tinues to attract and enchant us, for the very reason of early association for the celebrated names of that it cannot be defined, but, like the irregular out. Witcherly, Congreve, Farquhar, Vanbrugh, and their line of a chain of mountains, or the undefined glades compeers, we cannot help uniting with the honest

corded to such a state of public taste, even while we playful ridicule; and he denies that he was at all know-what he seems not to be aware of-that some gifted by nature with that light and easy raillery, of these plays still keep possession of the theatre—which, playing harmlessly around everything, is so much the more pleasing, from seeming to be the of the class (for wit and indecency combined) was represented at the Park, it was only respect for those who played in the Inconstant that kept the audience hicle of any definite doctrine, but merely contains a from hissing it from the stage. It is a melancholy reflection that writings which contain so much witty observation and so many admirable touches of character. should have afforded the enemies of the drama the most powerful weapons with which to assail it; and edly composed together, or adopting the opinion of yet, so long as they are allowed to be a part of the acting theatre, they almost justify the denunciations of those who condemn the stage as a school of depravity. They were compesed in an age when the English people had retrograded centuries behind the age of Shakespeare in real refinement, while they arrogated to themselves claims to a much higher state of civilization than in the age of Elizabeth. They were composed in an age when that sex-whose present condition and acknowledged influence in society is next to Christianity itself in effect in rendering the state of mankind superior to what it was two thousand years ago-seemed rapidly sinking into the same ontimate in which they were held, when in the vaunted days of Athenian civilization they were but the toy and pastime of those, whose labors have made the human race their debtors. They breathe an impure spirit; they give a nauseous coloring to the heartsuch as even that bold interpreter of sensuality, Aristophanes, never approached in offensiveness. Let them perish in their impurity-not only to prevent the gangrene of grossness from extending further, but that in consigning those to merited oblivion who prostituted their abilities in rearing these lamentable memorials of their age, men may learn, that however the power of wit may be temporarily increased by exercising it for the amusement, and adapting its sallies to the taste of a Sybaritic Prince and his lewd associates,—the soul whose influence is to survive the grave must never sparkle in the breast of a parasite, but shine out from the bosom of one who looks beyond the countenance of a King or the favor of a coterie. The most undoubted proof of genius-that of being in advance of the age in which it has its birth-is wanting in these writers. They were but portrait painters of pitiful originals; and though the fresh vigor of their pencil at one time, and its felicitous ease at another, may have imparted consequence and grace to features essen. tially vulgar and contemptible, their delineations of character, are now as offensive to the eye of taste as the hoops and towering head-dresses of the women of quality, and the huge perukes, wide sleeves, and ribbon-knots of the fine gentlemen whose manners they depicted.

We have perhaps delayed somewhat too long upon these two periods of the British stage: but our observations are comprised within the least possible limits that a just attention to the text (which we have endeavored closely to follow,) would allow.

The Music sent to us during the week, from Hewitt & Co.'s warehouse, is The Merry Swiss Girl; The Minstrel's Tear; The Mistletoe Bough; Can I again that look recall; all arranged for the guitar, by Otto Torp; Cielo a miei lunghi spasimi, an aria (tis nothing more nor less than the well-known air of "Home, sweet home,") from the opera of Anna Bo. lena, as sung by Madame Pasta; La voix de ce qu'on aime, a romance, of which the words and music are

POETRY.

[FOR THE AMERICAN.]

ow read me my drea "Glenara, Glenara

Have you seen Monsieur Sabert, Mr. Editor? don't mean the Fire King, but the necromancer?—
Do go—he is a love of a conjuror; and can change anything into anything else so quickly, that if they were beaux, one wouldn't have time to get tired of them. I do wish gentlemen would learn a little jugglery for variety's sake; it would make them so enchanting. Only think now of my sister Lessy having had a horrid dream, which none of the stupid men around us could interpret! and yet, so soon as we girls had put our heads together, and described it in rhyme to Mr. Sabert last night, the dear man at once gave the irue meaning, as you may yourself see, good Mr. Editor, by reading our account of the vi-sion with Mr. Sabert's interpretation below. FIORELLA. Your constant reader

DREAM.

Young Lesbia slept. Her glowing cheek Was on her polished arm reposing, And slumber closed those fatal eyes, Which keep so many eyes from closing.

For even Cupid, when fatigued Of playing with his bow and arrows, Will harmless furl his weary wings, And nestle with his mother's sparrows.

Young Lesbia slept—and visions gay
Before her dreaming soul were glancing,
Like sights that in the moon-beams show,
When fairies on the green are dancing.

And first, amid a joyous throng, She seemed to move in festive measure, With many a courtly worshipper, That waited on her queenly pleasure.

And then—by one of those strange turns
That witch the mind so when we're dreaming.
She was a planet in the sky,
And they were stars around her beaming.

Yet hardly had that lovely light,
(To which one cannot here help kneeling.)
Its radiance in the vault above
Been for a few short hours revealing:

Been for a few short hours revealing:
When, like a blossom from the bough
By some remorseless whirlwind riven,
Swiftly upon its lurid path,
"Twas back to earth like lightning driven.
Yet brightly still, though coldly, there
Those other stars were calmly shining,
As if they did no miss the rays
That were but now with their own twining. And half with pique, and half with pain, To be from that gay chorus parting, Young Lesbia from her dream awoke, With swelling heart and tear-drop storting.

INTERPRETATION.

Had she but thought of those below,
Who thus were left with breasts benighted,
Till Heav'n dismissed that star to earth,
By which alone our hearts are lighted— Or, had she recollected, when
Each virtue from the world departed,
How Horn, the dearest, came again,
And staid to cheer the lonely-hearted:

Sweet Lesbia could not thus have grieved, From that cold dazzling throng to sever, And yield her warm young heart again, To those that prize its worth forever.

MARRIAGES.

On Tuesday the 7th instanst, by the Rev. Joel T. Benedict, of hiladelphia, Eraptus C. Benedict, Esq. to Miss Carolin M. Bloodgood, both of this city.

M. BLOODGOOD, both of this city.

On the 90th of April, by the Rev. Dr. McAuley, James M.
Naughton, M. D., of Albany, to Caroline, daughter of Arch
baid McIntyre, Esq. of this city.
In Syracuse, on the 1st inst., Lt. R. B. Marcy, U. S. A., i
Miss Mary Amelia Mann, daughter of the late Saml. Mann, of
Syracuse.

At Cedar Point, the residence of Henry Sewall, Esq. St Mary's County, Maryland, on the 25th ult. by the Rev. Mr Carbery, Phillip B. Key, Esq. of Prince George's County, Mary and, to Miss Maria L. Szwall, youngest daughter of the late Alcholas Sewall, Esq. of the former place.

At Washington City, on Thursday evening, 25th ult. Thom.
PENNANT BARTON, Esq. of Philadelphia, to Cora, only daught
of Hon. Edward Livingston, Secretary of State.

DEATHS

On Friday, 3d instant, after a short illness, ELIZABETH, wife of Eleazer Lord, aged 39 years. Monday morning, May 6, Francis M. McKinley, in the 28th

This morning, after a short illness, aged 68 years, Mrs. Ca ausz, relict of the late Herman Hoffman. Her remains will conveyed to Red Hook, Dutchess county, for interment.

Last evening, Lewis Edward, son of James F. Penged 4 years and 1 month.

aged 4 years and I month.

At Walden, Orange county, N. Y. on the 29th April, at the house of his brother-in law, the Rev. W. H. Hart, Townsent Moore, Esq. in the 51st year of his age—late of this city.

At Dracut, Mrs. Molly Varnun, relict of the late Hot Joseph B. Varnun, 82 years. Mrs. V. was one of the many female worthies of the revolution. She aided her husband in getting men for the array, by her kind and encouraging solicitations, and clothed them with the sheets and blankets from he heda.

Departed this life, at Circleville, Ohio, on Saturday, April 7, in her 33d year, after a painful illness of a fortnight, THEODOR A P. HOPKINS, wife of Mr. R. H. Hopkins, Merchant. Mrs. H. had been a Member of the Protestant Episcopal Church from the age of 16; and, whilst known as the active, untiring supporter of her own peculiar communion, she was scarcely less so, in promoting the cause of Cirist in general. With a mind of a superior order, greatly improved by cultivation; an activity of body, surprixing in one of her delicate frame, she added warmth of affection, and decision of character, which rendered her an ornament to her Christian profession, and a pattern to her sex, in the various relationships of wife, mother, sister, andfriend. Though tried by her sufferings of years, her patience was unwearled; her childlike reliance on the love of her Heavenly Father, unshaken; and her prospect of eternally enjoying the blood-bought inheritance, unclouded. With a conviction or sin, the deepest; a reliance on the merits of her Saviour the most confiding, she breathed out her spirit into the hands of her faithful Creator.

Reader: what she was, she was by grace.

Reader! what she was, she was by grace.



MECHANICS' MAGAZINE,

Register of Inventions and Improvements.

To the Mechanics of the United States. In this populous and enlightened country, almost every description of persons can obtain knowledge and amusement, connected with their peculiar pursuits, through the Medium of the Journal or Magazine especially devoted to their interests. The Theologian, the Farmer, the Philosopher, the Sportsman, and even the Plough-Boy, has each his journal, where he can find a record of the passing events of the day, connected with his peculiar avocations, and recreation. Hitherto, the Mechanics (who form a large and most important portion of the community) have and recreation. Filtherto, the Mechanics (who form a large and most important portion of the community) have had no Journal to which they could turn, with the certainty of finding that information they desire—no periodical, of which they could with confidence say,

"THIS IS OURS, AND FOR US."

In the hope that the attempt to supply such a want, at a price so reasonable as to be within the reach of all, will price so reasonable as to be within the reach of all, will meet with your active support, the subscriber proposes to publish on the first day of each month a "Mechanics' Magazine." It will contain a well digested selection of the most useful and interesting articles from the London Mechanics' Magazine, London Register of Arts and Sciences, Repertory of Inventions, Library of Useful Knowledge, Journal of the Franklin Institute, and other works connected with the Arts and Manufactures published in this country and in Europe, accompanied with numerous well executed engravings. Its pages will be open for the communications of all, and especially for those of the Practical Artisan, to whose interests it will be more particularly devoted.

The "Mechanics' Magazine" will contain also a due

devoted.

The "Mechanics' Magazine" will contain also a due portion of the occurrences of the month, Scientific and Literary, Reviews of Books, Anecdotes, Economical Receipts, Reports of the state of Mechanics' Institutions, and other ientific Societies in this and other countries

Scientific Societies in this and other countries.

To In order that the work might be produced to the entire satisfaction of those for whom it is designed, and with credit to myself, I have secured the aid of a gentleman who was for several years engaged in publishing the London Mechanics' Magazine—a work of great merit and extension, and which Dr. Berkbeck, the President of the London Mechanics' Institution pronounced as the most valuable gift the hand of science ever offered to the Artizan

Each succeeding number will contain 64 pages, handsome ly printed, and attached in a neat cover. Six numbers will form a volume, for which an Index and Title-page will be supplied, and also a Portrait of some distinguished Mechanic, as a Frontispiece.

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** No 4 (for April) is just published and ready for de livery.

TO DIRECTORS OF RAILWAY COMPA-NIES AND OTHER WORKS.

An Engineer lately from England, where he has been em-ployed in the location and execution of the principal railways in that country, wishes to engage with some company in the

Jaited States. From his practical knowledge of the various kinds of motive sower, both of stationary and locomotive engines, also the con-truction of railway carriages of many descriptions, he has no loubtthat he would prove of efficient service to any company

having works now in proceess.

Letters addressed to W. E. G. 35 Wall street, or to the care of Wm. & F. Jacques, 90 South street, will be punctually attended to. Most satisfactory reference can be given. milt

Townsend & Durfee, of Palmyra, Manufacturers of Railroad Rope, having removed their establishment to Hudson under the rame of Durfee & May, offer to supply Rope of any required length (without spice) for inclined planes of Railroacs at the shortest notice, and deliver them in any of the principal cities in the United States. As to the quality of Rope, the public are referred to J. B. Jervis, Eng. M. H. R. R. Co., Albany: or James Archibald, Engineer Hudson and Delaware Canal and Railroad Company, Carboudale, Luzerne county, Pennsylvanis.

Hudson, Columbia county, New-York, J. January 29, 1833.

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The following recommendations are respectfully submitted

Philadelphia.

The fol owing recommendations are respectfully submitted to Engineers, Surveyors, and others interested.

Baltimore, 1832.

In reply to thy inquiries respecting the instruments manufactured by thee, now in use or the Baltimore and Ohio Railroad. I cheerfully furnish thee with the following information. The whole number of Levels now in passession of the department of construction of thy make is seven. The whole number of the "Improved Compase" is eight. These are all exclusive of the number in the service of the Engineer and Graduation Department.

Both Levels and Compasses to its service.

clusive of the number in the service of the Engineer and Graduation Department.

Both Levels and Compasses are in good repair. They have a fact needed but little repairs, except from accidents to which all instruments of the kind are liable. I have found that thy patterns for the levels and compasses have been preferred by my assistants generally, to any others in use, and the improved Compass is superior to any other description of Goodmeter that we have yet tried in taying the rails on this Road.

cription of Gomiometer that we have yet tried in 1871.

This instrument, more recently improved with a reversing telescope, in place of the vane sights, leaves the engineer scarcely any thing to desire in the formation or convenience of the Compass. It is indeed the most completely adapted to later al angles of any simple and chear instrument that I have yet seen, and I cannot but believe it will be preferred to all others now in u-e for laying of rails—and in fact, when known, I think it will be as highly appreciated for common surveying.

Respectfully thy fr.end,

JAMES P. STABLER, Superintendant of Construction of Baltimore and Ohio Railroad.

Philadeiphia, February, 1833.

Philadelphia, February, 1833.

Having for the last two years made constant use of M Young's "Patent Improved Compass," I can safely say Ib lieve it to be much superior to any other instrument of the kin now in use, and as such most cheerfully recommend it to E gineers and Surveyors.

E. H. Oll L. Civil Engineer.

E. H. OILL, Civit Engineer.

Germantown, February, 1833.

For a year past I have used instruments made by Mr. W. J.

Young, of 'rhiladelphia, in which he has combined the properies of a Theodolite with the common Level.

I consider these instruments admirably calculated for laying
out Railroads, and can recommend them to the notice of Engineers as preferable to any others for that purpose.

HENRY R. CAMPBELL, Eng. Philad,
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26 bales low priced pointer.

PAPER—
IMPERIAL AND ROYAL—From the celebrated Saugertles.

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IMPERIAL AND ROYAL—From the celebrated Saugerties
Mills, of the following sizes, all put up with 490 perfect sheets
to each ream—

Sizes—24x 35. 24\(\frac{1}{2}x\)36, 21x\(\frac{3}{2}\)4, 20x\(\frac{3}{2}x\)5, 26x\(\frac{3}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 29x\(\frac{4}{2}x\)7, 20x\(\frac{4}{2}x\)7, 20x\(\fra

ALSO,
Chinese Colored Paper—for Labels, Perfumery, &c.

5 cases each 1600 Sheets Colored Paper
do do superfine

Chinese Colored Pa:
5 cases each 1600
2 do do
3 do do
3 do do
4 do do
2 do do
4 do
2 do do
2 do do
2 do do
2 do do
3 do do Sheets Colored Pape do do do do do fig. do do do plain Gold do do plain Silver do do Silver do do Gold do do Red do with red figures do Gold do